

Amount

**SECTION NO. 2**  
**BILL NO. 5**  
**WATERPROOFING**  
**COLLECTION**

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Carried to Summary

R

151  
hm RJ R.N.

Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BILL NO. 6**

**ROOF COVERINGS**

**(CPAP WORK GROUP NO. 124 UNLESS OTHERWISE STATED)**

| <u>Key:</u> | <u>Location Description:</u> |
|-------------|------------------------------|
| Un/A        | Unallocated                  |
| Item        | Item Location                |
| A&B         | A&B: Main & Cleaners         |
| C           | C: Power & Water Mgt         |
| D           | D1&D2: Residences            |
| E           | E: Refuse Room               |

The bidder is referred to the relevant clauses in the ASAQS General Preambles for Trades (2017 Edition), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/alterd. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

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Roof Coverings

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### Labour Intensive (LI)

Bidders are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the words "Labour Intensive" at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised, or other systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills.

### Drawings:

Tenderers are to note that where descriptions include references to drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from failure to comply with any of the above will be entertained.

### SHEETING

The roof sheeting shall be aluminium interlocking "Safintra" or equally approved profile roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Aluminium G4 Colortech finish. A certificate verifying compliance shall be issued by the manufacturer. The profile shall be roll-formed with four ribs at centres not exceeding 233mm and a cover width not exceeding 700mm. These will include a male and female rib with capillary action breaks. The male rib shall incorporate spurs spaced no more than 200mm apart to ensure minimum clipping areas on the side lap, and stand proud of the rib for purposes of double interlocking action with adjacent sheets. When interlocked, the minimum sheet depth shall be 41mm. "SAFLOK 700" or equally approved roof sheeting and accessories shall be obtained from "Global Roofing Solutions" or equally approved - Tel: 082 820 8627

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Roof Coverings

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-------------------|
| <b><u>FINISH FOR "SAFLOK 700" OR EQUALLY APPROVED</u></b><br><b><u>ROOF SHEETING</u></b><br>0.8mm "SAFLOK 700" or equally approved steel Grade G550 with a Rain cloud colorplus finish to one side with a standard Mountain Mist backing coat to other.<br><b><u>FIXING:</u></b><br>The "Saflok 700" or equally approved sheets shall be fixed to every purlin by means of patented KL700 clips having spurs which will securely hold the sheets in position and lock-in the sidelap and both centre ribs. The KL700 clips shall be manufactured from Aluminium and shall be fixed with the appropriate Class 5 Wafer head selfdrilling/ tapping screws to steel purlins (selection from installation manual).<br><b><u>"SAFLOK" OR EQUALLY APPROVED FLASHINGS</u></b><br>The "Saflok 700" or equally approved sheets shall be fixed to every purlin by means of patented KL700 clips having spurs which will securely hold the sheets in position and lock-in the sidelap and both centre ribs. The KL700 clips shall be manufactured from Aluminium and shall be fixed with the appropriate Class 5 Wafer head selfdrilling/ tapping screws to steel purlins (selection from installation manual).<br><b><u>INSTALLATION</u></b><br>Every precaution shall be taken to prevent damage to roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, shall be replaced, at the Contractors cost. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.<br><b><u>SAFETY</u></b><br>The Contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity. |      |          |      |                   |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          | R    |                   |
| Bill No. 6<br>Roof Coverings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      | 154<br>Lm RY R.m. |

| Unit | Quantity | Rate | Amount |
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### **HANDLING AND STORAGE**

The Contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the Contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

### **INSPECTION PRIOR TO INSTALLATION**

Before commencing installation, the Contractor shall verify that the following items have been checked and replaced:

- The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
- Purlins and girts are at the correct spacing and are within the specified tolerances.
- The corners of the roof are square and the wall framework is perpendicular or as specified.
- No protrusions such as bolt heads, splice plates, cleats, etc. should appear on the face of the framework.
- All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- The contact faces between the purlins or the girts and the cladding are in the same plane. Should the alignment be inadequate, the Contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

### **PROTRUSION THROUGH SHEETED SURFACES**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

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Bill No. 6  
Roof Coverings

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| <b><u>GUARANTEE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                         |                |          |      |                   |
| The manufacturer shall comply with ISO 9001: 2008 Quality Management System. "SAFLOCK 700" or equally approved sheeting shall be laid in strict accordance with the manufacturer's specifications by an approved contractor. A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer                                                                                                                                                    |                                                                                                                                                         |                |          |      |                   |
| <b><u>CLEANING OF ROOF, ETC.</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                         |                |          |      |                   |
| All debris, swarf, etc arising from the fixing of the cladding shall be removed from the sheeting as the fixing progresses. In addition, off-cuts of insulation, surplus fasteners, sealants, mandrels from pop rivets, off-cuts of sheeting, surplus flashing, food packaging, cartons, bottles, cans, etc shall not be left on the roof or in the gutters. Care shall be taken to ensure that no such material enters, blocks or partially impedes the flow of water into the outlets, down pipes, etc. |                                                                                                                                                         |                |          |      |                   |
| <b><u>PROFILED ALUMINIUM SHEETING AND ACCESSORIES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                         |                |          |      |                   |
| The tenderers are referred to the Architectural drawings No. 2301-AR-T-163.A, when pricing the following roof coverings                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                         |                |          |      |                   |
| <b><u>"Safintra 0.8mm thick Saflok 700 G4 Colortech" or equally approved aluminium interlocking roof sheeting fixed to steel internal purlins at 1900mm centres and ridge/eave purlins at 1700mm centres using "Saflok 700" or equally approved clips fastened to steel purlins with Fixtite™ or equally approved wafer head self-tapping fasteners, all in strict accordance with manufacturer's specifications by a manufacturer approved contractor:</u></b>                                           |                                                                                                                                                         |                |          |      |                   |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Roof covering with pitches not exceeding 25 degrees with side laps sealed with and including 6 x 20mm closed cell impregnated polyurethane strips. (LI) | m <sup>2</sup> | 1 294    |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A&B 648 C 53 D 558 E 35                                                                                                                                 |                |          |      |                   |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Headwall Flash 462mm girth, 1 times bent and notched on site to suit roof profile. (LI)                                                                 | m              | 101      |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A&B 34 D 67                                                                                                                                             |                |          |      |                   |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Apex – Girth 660mm 1 x bent – 330x330mm. Fixed with broad flute closures + poly closures and sliding brackets (F10, 2-piece slider)                     | m              | 114      |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A&B 114                                                                                                                                                 |                |          |      |                   |
| 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Side wall flashing 462mm girth two times bent on site to suit roof profile. (LI)                                                                        | m              | 126      |      |                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | A&B 66 D 60                                                                                                                                             |                |          |      |                   |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                         |                |          | R    |                   |
| Bill No. 6<br>Roof Coverings                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                         |                |          |      | 156<br>hm 27 R.m. |

|    |                                                                                                                                                                               |   |    |   | Unit           | Quantity | Rate | Amount |
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| 5  | Barge Flash 660mm girth 3 times bent. (LI)                                                                                                                                    |   |    |   | m              | 250      |      |        |
|    | A&B 63                                                                                                                                                                        | C | 17 | D |                |          |      | 159    |
|    | E 11                                                                                                                                                                          |   |    |   |                |          |      |        |
| 6  | Narrow and broad flute closers                                                                                                                                                |   |    |   | m              | 216      |      |        |
|    | A&B 216                                                                                                                                                                       |   |    |   |                |          |      |        |
| 7  | Valley flashing – Girth 660mm 1 x bent – 330x330mm. Fixed with stiffener bend (1580 angle)                                                                                    |   |    |   | m              | 34       |      |        |
|    | A&B 34                                                                                                                                                                        |   |    |   |                |          |      |        |
| 8  | Extra over Roof covering for bending down troughs to form drip.                                                                                                               |   |    |   | m              | 102      |      |        |
|    | A&B 102                                                                                                                                                                       |   |    |   |                |          |      |        |
| 9  | Hip Cap – Girth 660mm 1 x bent – 330x330mm. Fixed with blank closures, notched + poly blocks                                                                                  |   |    |   | m              | 34       |      |        |
|    | A&B 34                                                                                                                                                                        |   |    |   |                |          |      |        |
| 10 | Internal corner flashing                                                                                                                                                      |   |    |   | m              | 10       |      |        |
|    | A&B 10                                                                                                                                                                        |   |    |   |                |          |      |        |
| 11 | External corner flashing                                                                                                                                                      |   |    |   | m              | 8        |      |        |
|    | A&B 8                                                                                                                                                                         |   |    |   |                |          |      |        |
| 12 | Aluminium 2mm - Girth 150mm 75 x 50 x 25mm Epoxied to concrete beam exposed face                                                                                              |   |    |   | m              | 56       |      |        |
|    | A&B 56                                                                                                                                                                        |   |    |   |                |          |      |        |
| 13 | "Sondor" or equally approved corrugated pattern polyclosure under beam filling. (LI)                                                                                          |   |    |   | m              | 392      |      |        |
|    | A&B 216                                                                                                                                                                       | C | 17 | D |                |          |      | 148    |
|    | E 11                                                                                                                                                                          |   |    |   |                |          |      |        |
| 14 | Extra over roof sheet for fixing every crown at eaves. (LI)                                                                                                                   |   |    |   | m              | 189      |      |        |
|    | A&B 102                                                                                                                                                                       | C | 8  | D |                |          |      | 74     |
|    | E 5                                                                                                                                                                           |   |    |   |                |          |      |        |
| 15 | Extra over roof sheet for fixing every crown at apex. (LI)                                                                                                                    |   |    |   | m              | 168      |      |        |
|    | A&B 155                                                                                                                                                                       | C | 8  | E |                |          |      | 5      |
|    | <b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>                                                                                                                         |   |    |   |                |          |      |        |
|    | <b><u>ROOF AND WALL INSULATION</u></b>                                                                                                                                        |   |    |   |                |          |      |        |
|    | <b><u>Sisalation Multi-layered reinforced single sided aluminium foil sheeting in accordance with SANS. applied in strict accordance with manufacturers instructions:</u></b> |   |    |   |                |          |      |        |
| 16 | Type FR430 sisalation aluminium foil faced single sided sheeting, including straining wires, etc. (LI)                                                                        |   |    |   | m <sup>2</sup> | 1 059    |      |        |
|    | A&B 612                                                                                                                                                                       | C | 54 | D |                |          |      | 357    |
|    | E 36                                                                                                                                                                          |   |    |   |                |          |      |        |

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|                              | <b><u>PIR Insulation with Matt mineral copated fibre glass tissue and lower exposed facing to be 60 micron embossed aluminium:</u></b>                                                                                                                                                                                                                                                                               |      |          |      |            |
| 17                           | 50mm Lambdaboard or equally approved laminated polyisocyanurate core board, including all fixings as per manufacturers instructions, etc. (LI)<br><br>A&B 36<br><b><u>Isover or equally approved factorylite 100mm thick, non-combustible flexible lightweight industrial fibreglass roof insulation with reinforced foil facing both sides, installed in strict accordance with manufacturers instructions:</u></b> | m²   | 36       |      |            |
| 18                           | Factorylite lightweight industrial fibreglass roof insulation, including straining wires, etc. (LI)<br><br>D 338                                                                                                                                                                                                                                                                                                     | m²   | 338      |      |            |
| Carried to Collection        |                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      | R          |
| Bill No. 6<br>Roof Coverings |                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      | 158' R.rr. |
| 70                           |                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      | Law 29     |

Amount

SECTION NO. 2

BILL NO. 6

ROOF COVERINGS

COLLECTION

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Bill No. 6  
Roof Coverings

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Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BILL NO. 7**

**CARPENTRY AND JOINERY**

**(CPAP WORK GROUP NO. 126 UNLESS OTHERWISE STATED)**

| <u>Key:</u> | <u>Location Description:</u> |
|-------------|------------------------------|
| Un/A        | Unallocated                  |
| Item        | Item Location                |
| A&B         | A&B: Main & Cleaners         |
| C           | C: Power & Water Mgt         |
| D           | D1&D2: Residences            |
| E           | E: Refuse Room               |

The bidder is referred to the relevant clauses in the ASAQS General Preambles for Trades (2017 Edition), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/altered. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

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Bill No. 7

Carpentry And Joinery

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| <b><u>Labour Intensive (LI)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |   |    |   |      |          |      |        |
| Bidders are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the words "Labour Intensive" at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised, or other systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills. |                              |   |    |   |      |          |      |        |
| <b><u>PRETREATMENT OF TIMBER</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                              |   |    |   |      |          |      |        |
| This service falls within the areas defined in the National Building Regulations for Treatment of Timber against insect pest affecting softwood fixed permanently in all buildings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                              |   |    |   |      |          |      |        |
| The Regulations require that timber be treated in terms of SANS as relevant. Bidders are to make allowance in their rates.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |   |    |   |      |          |      |        |
| Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                              |   |    |   |      |          |      |        |
| <b><u>Drawings:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |   |    |   |      |          |      |        |
| Tenderers are to note that where descriptions include references to drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from failure to comply with any of the above will be entertained.                                                                                                                                                                                                                                                                                                                                                                                                           |                              |   |    |   |      |          |      |        |
| <b><u>ROOFS ETC</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                              |   |    |   |      |          |      |        |
| <b><u>"SA Pine" or equally approved</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                              |   |    |   |      |          |      |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 114 x 38mm Wall plates. (LI) |   |    |   | m    | 294      |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A&B 266                      | C | 17 | E | 11   |          |      |        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 50 x 76mm Purlins. (LI)      |   |    |   | m    | 1 296    |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | A&B 537                      | C | 66 | D | 649  |          |      |        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | E 44                         |   |    |   |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |   |    |   |      |          |      | R      |
| Bill No. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                              |   |    |   |      |          |      |        |
| Carpentry And Joinery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                              |   |    |   |      |          |      |        |

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| 3                                                                                                                                                                                                                                                                                     | 228 x 50mm Timber beam. (LI)                                                 | m    | 60       |      |        |
|                                                                                                                                                                                                                                                                                       | D 60                                                                         |      |          |      |        |
| 4                                                                                                                                                                                                                                                                                     | Teco hangers (fixed to rafter feet to receive stiffening purlins at fascias) | No   | 54       |      |        |
|                                                                                                                                                                                                                                                                                       | D 54                                                                         |      |          |      |        |
| <b><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION</u></b>                                                                                                                                                                                                                             |                                                                              |      |          |      |        |
| <b><u>Specification:</u></b>                                                                                                                                                                                                                                                          |                                                                              |      |          |      |        |
| The trusses, etc. shall be approved Engineering designed trusses, manufactured from South African sawn pine as described, including hoisting and fixing in position.                                                                                                                  |                                                                              |      |          |      |        |
| The trusses shall conform to the drawings, details and the following in all aspects :                                                                                                                                                                                                 |                                                                              |      |          |      |        |
| <b><u>Treatment of timber :</u></b>                                                                                                                                                                                                                                                   |                                                                              |      |          |      |        |
| Prices are to include for treating timber as defined in Government Gazette (Notice No. R.2577 of 29th December 1978), and any amendments thereto.                                                                                                                                     |                                                                              |      |          |      |        |
| <b><u>Timber and Materials :</u></b>                                                                                                                                                                                                                                                  |                                                                              |      |          |      |        |
| The minimum requirements for all timber shall be merchantable grade (SABS 563).                                                                                                                                                                                                       |                                                                              |      |          |      |        |
| <b><u>Finish on connector plates :</u></b>                                                                                                                                                                                                                                            |                                                                              |      |          |      |        |
| Connector plates are to have at least two coats of epoxy tar finish. (for coastal areas)                                                                                                                                                                                              |                                                                              |      |          |      |        |
| <b><u>Design :</u></b>                                                                                                                                                                                                                                                                |                                                                              |      |          |      |        |
| The materials and the design of the roof construction must be in accordance with the relevant editions of the SABS (Viz. SABS 0163- 1980 : Code of Practice for the design of Timber Structures and the latest recommendations of the National Timber Research Institute of the CSIR. |                                                                              |      |          |      |        |
| <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>                                                                                                                                                                                                                                        |                                                                              |      |          |      |        |
| All timber roof trusses including nail-plated trusses and bolted trusses with lapped members must comply with SABS 0243 : THE DESIGN, MANUFACTURE AND ERECTION OF TIMBER TRUSSES.                                                                                                     |                                                                              |      |          |      |        |
| Prices for roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bracing and runners where required and overhanging ends are to be wrot faced all round.                                                        |                                                                              |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                 |                                                                              |      |          |      | R      |
| Bill No. 7                                                                                                                                                                                                                                                                            |                                                                              |      |          |      |        |
| Carpentry And Joinery                                                                                                                                                                                                                                                                 |                                                                              |      |          |      |        |

162  
hm RJ R. n.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit | Quantity | Rate | Amount |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| <p>Rates for timber roof trusses shall include for 'Teco' hurricane clips and 2.5mm diameter double strand galvanised wire tie 550mm girth wrapped around rafter and purlin with ends tied together at every intersection of purlins and trusses.</p> <p>The top chord dead loading to be sufficient to support roofing, purlins, insulation, etc. The bottom chord dead loading to be sufficient to support ceilings, bracing and bracing timbers, etc. The eaves dead-loading at each end of the truss to be sufficient to support fascias, gutters and fixings, etc.</p> <p>Live load and wind loads are to be in accordance with SABS 0160-v1989 as amended.</p> <p>The design of the trusses and permanent bracing must be carried out under the control of a registered engineer. All calculations and drawings, including a key-plan of each building, showing the position of each type of bracing must be submitted timeously to the project Engineers, for their approval, before fabrication is commenced.</p> <p>(Note that fire-walls (if any) affect the number of braced bays required.)</p> <p><b><u>Dimensions and setting out :</u></b></p> <p>The setting out, spacing and overall dimensions of the roof trusses are shown on the drawings.</p> <p>The dimensions in the descriptions of the trusses are nominal and are measured on plan, and all actual truss measurements and dimensions shall be obtained from the Architect or measured on site prior to commencement of design or fabrication.</p> <p><b><u>Bracing :</u></b></p> <p>Prices to include for adequate temporary bracing during construction to the approval of the Engineer. Allowance for permanent bracing have been measured separately.</p> <p><b><u>Hoisting :</u></b></p> <p>Prices to include for hoisting and setting up in position, strictly in accordance with the manufacturer's instructions.</p> <p><b><u>Drawings :</u></b></p> <p>The references given in the descriptions are to the respective types of trusses detailed on the Architect's drawings accompanying these Bills of Quantities for tender purposes.</p> |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          | R    |        |
| Bill No. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| Carpentry And Joinery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |

|                                                                                                                                                                                                                                             | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|--------|
| <b><u>Manufacturer of Trusses :</u></b>                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| All trusses to be fabricated by a truss fabricator who has been awarded a Certificate of Competence by the Institute for Timber Construction.                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| <b><u>Erection of Trusses :</u></b>                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| All trusses and sundry roof material to be erected by a roof erector who has been awarded a Certificate of Competence by the Institute for Timber Construction.                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| <b><u>Certificate of Competence :</u></b>                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| A Certificate, from an independent professional engineer, must be provided to the Architect after the erection of the trusses, stating that the design, erection and bracing of the trusses are in accordance with the specified standards. |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| <b><u>Complete roof structure, including hips and valleys, valley rafters and hip rafters, linings, jack rafters, permanent bracing, etc.</u></b>                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| <b><u>The following in plate nailed timber roof trusses with pitch not exceeding 25 degrees from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates to SANS 10400:</u></b>              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| 5                                                                                                                                                                                                                                           | Design, supply and install complete roof truss system size approximately 31 530mm x 6 280mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 198,00m <sup>2</sup> ) (17,5 degrees pitch) | No       | 1    |        |
| A&B 1                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| 6                                                                                                                                                                                                                                           | Design, supply and install complete roof truss system size approximately 6 950mm x 6 480mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 45.04m <sup>2</sup> ) (17,5 degrees pitch)   | No       | 1    |        |
| A&B 1                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| Carried to Collection                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          | R    |        |
| Bill No. 7                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |
| Carpentry And Joinery                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |        |

154  
km RJ R-m.

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Quantity | Rate | Amount |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| 7                     | Design, supply and install complete roof truss system size approximately 7 310mm x 7 040mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 51.46m2) (17,5 degrees pitch)   | No   | 1        |      |        |
|                       | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
| 8                     | Design, supply and install complete roof truss system size approximately 32 170mm x 6 240mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 200.74m2) (17,5 degrees pitch) | No   | 1        |      |        |
|                       | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
| 9                     | Design, supply and install complete roof truss system size approximately 22 970mm x 6 010mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 138.04m2) (17,5 degrees pitch) | No   | 1        |      |        |
|                       | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
| 10                    | Design, supply and install complete roof truss system size approximately 8 260mm x 6 560mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 54.19m2) (17,5 degrees pitch)   | No   | 1        |      |        |
|                       | C 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| Carried to Collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          | R    |        |
| Bill No. 7            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |
| Carpentry And Joinery |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |

165  
Km RJ R.M.

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit | Quantity | Rate | Amount |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| 11                    | Design, supply and install complete roof truss system size approximately 5 440mm x 6 560mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 35.69m2) (17,5 degrees pitch)         | No   | 1        |      |        |
|                       | E 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |      |        |
| 12                    | Design, supply and install complete roof truss system size approximately 30 220mm x 7 390mm wide, including openings, complete in accordance with the relevant part of the most current edition of SANS, including cross battens at hips, valleys etc. fixed to trusses with and including ring shank nails, valley rafters, temporary and permanent bracing, etc. all in accordance with the attached drawings and specifications (measured flat on plan 223.33m2) (17,5 degrees pitch)       | No   | 2        |      |        |
|                       | D 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |      |        |
|                       | <b><u>The following certificates are required for each timber roof installation</u></b>                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| 13                    | Provide, manufacturing and installation certificates (TR1 and TR2), to be supplied by the Contractor and approved by the Consulting Structural Engineer after manufacture and installation respectively.                                                                                                                                                                                                                                                                                       | No   | 9        |      |        |
|                       | Item 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |        |
|                       | <b><u>EAVES, VERGES, ETC</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
|                       | <b><u>"Everite Nutec" or equally approved Medium density plain fibre-cement fascias and barge boards</u></b>                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
| 14                    | 12 x 300mm Fascias and barge boards (Code 041-203), including galvanised steel H-profile joiners. (LI)                                                                                                                                                                                                                                                                                                                                                                                         | m    | 443      |      |        |
|                       | A&B 241 C 29 D 149                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |
|                       | E 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
|                       | <b><u>DOORS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |          |      |        |
|                       | <b><u>Drawings:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
|                       | Tenderers are to note that where descriptions include reference drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from any of the above will be entertained. |      |          |      |        |
| Carried to Collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          | R    |        |
| Bill No. 7            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |
| Carpentry And Joinery |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |

166  
km 25 R.m.

|                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                           | Unit | Quantity | Rate | Amount |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| <b>Timber Doors</b>                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| <b><u>The tenderers are referred to the Architectural drawing No. AR-T-400-0 to AR-T-400-15, when pricing the following doors.</u></b> |                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| 15                                                                                                                                     | 46mm Thick battened Saligna one and a half double timber door approximately 1350 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), 6.38mm laminated safety glass, and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-2/7. (DT-B,) (LI) | No   | 2        |      |        |
|                                                                                                                                        | A&B 2                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| 16                                                                                                                                     | 46mm Thick battened Saligna single timber door approximately 813 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), 6.38mm laminated safety glass, and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-7. (DT-G) (LI)                    | No   | 2        |      |        |
|                                                                                                                                        | A&B 2                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| 17                                                                                                                                     | 46mm Thick battened Saligna single half glass timber door approximately 813 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), 6.38mm laminated safety glass, and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-3. (DT-C) (LI)         | No   | 27       |      |        |
|                                                                                                                                        | A&B 7 D 20                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |
| 18                                                                                                                                     | 46mm Thick battened Saligna single timber door approximately 813 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-4/10. (DT-D, J) (LI)                                             | No   | 6        |      |        |
|                                                                                                                                        | A&B 6                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| 19                                                                                                                                     | 46mm Thick battened Saligna single timber door approximately 813 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), with 300mm high kick plate, and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-5. (DT-E) (LI)                       | No   | 4        |      |        |
|                                                                                                                                        | A&B 4                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| Carried to Collection                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                           |      |          | R    |        |
| Bill No. 7                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| Carpentry And Joinery                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |

167  
Rm R7 R-rr.

|    |                                                                                                                                                                                                                                                                                                                                     | Unit | Quantity | Rate | Amount |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| 20 | 46mm Thick battened Saligna single timber door approximately 950 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), with 300mm high kick plate, and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-6. (DT-F) (LI) | No   | 2        |      |        |
|    | A&B 2                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 21 | 40mm Thick battened Solid core hardwood cubicle door approximately 813 x 1960mm high, with concealed hardwood edges and commercial veneer for painting, with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-8. (DT-H) (LI)                    | No   | 9        |      |        |
|    | A&B 9                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 22 | 46mm Thick battened Saligna one and a half double timber door approximately 1350 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-11. (DT-K) (LI)            | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 23 | 46mm Thick battened Saligna single timber door approximately 650 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-12. (DT-L) (LI)                                | No   | 2        |      |        |
|    | A&B 2                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 24 | 46mm Thick battened Saligna double timber door approximately 1600 x 2032mm high, with and including 12mm thick T&G slats back to back (BB), and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-13. (DT-M) (LI)                           | No   | 2        |      |        |
|    | C 2                                                                                                                                                                                                                                                                                                                                 |      |          |      |        |
| 25 | 40mm Thick battened Solid core hardwood ensuite sliding door approximately 813 x 2032mm high, with concealed hardwood edges and commercial veneer for painting, with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-15. (DT-O) (LI)           | No   | 10       |      |        |
|    | D 10                                                                                                                                                                                                                                                                                                                                |      |          |      |        |

Carried to Collection

R

168  
Km RT R-r.

|    |                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit | Quantity | Rate | Amount |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| 26 | 46mm Thick battened Saligna double timber door approximately 600 x 900mm high, with and including 12mm thick T&G slats back to back (BB), and with exposure class 1 heavy duty and full exterior exposure, including certification to SANS 545 standard all as per drawing No. AR-T-400-16. (DT-P) (LI)                                                                                                                       | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |        |
|    | <b><u>SKIRTINGS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      |        |
|    | <b><u>Wrought meranti</u></b>                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |        |
| 27 | 13 x 67mm Hardwood Meranti skirtings plugged and screwed to walls with and including. (LI)                                                                                                                                                                                                                                                                                                                                    | m    | 28       |      |        |
|    | A&B 28                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
|    | <b><u>FITTINGS: CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u></b>                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |        |
|    | The reference given in these descriptions are of the respective types of signage detailed on the architects drawings accompanying these bills of quantities for tender purposes. Tenderers are to price these items in accordance with the drawings                                                                                                                                                                           |      |          |      |        |
|    | <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |        |
|    | General                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      |        |
|    | The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes, etc |      |          |      |        |
|    | Prices are to include for all necessary filler pieces against walls etc                                                                                                                                                                                                                                                                                                                                                       |      |          |      |        |
|    | <b><u>References</u></b>                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
|    | References given in descriptions refer to the respective types of fittings detailed on the architect's drawings numbered AR-T-601 to AR-T-633 Annexed to these bills of quantities for tender purposes                                                                                                                                                                                                                        |      |          |      |        |
|    | <b><u>GENERAL SPECIFICATIONS</u></b>                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |
|    | <b><u>Counter tops:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
|    | Countertops shall be of marine plywood construction to thicknesses as indicated in the various descriptions for same, fixed to walls with and including 150 x 10 x 100mm galvanised mild steel L-shaped brackets at 250mm centres, brackets once holed for and rawl bolted to concrete or brickwork with and including 12mm diameter x 100mm long galvanised mild steel rawl bolts.                                           |      |          |      |        |
|    | Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                         |      |          | R    |        |
|    | Bill No. 7                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
|    | Carpentry And Joinery                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |        |

169  
LM RY R-rr.

|                                                                                                                                                                                                                                 | Unit | Quantity | Rate | Amount |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| Countertops shall tiled over top and side surfaces with and including 12mm thick "Neolith Beton" or equally approved tiles with chamfered edges to one side, on 4mm thick marble adhesive. Tiling has been measured separately. |      |          |      |        |
| <b><u>Carcasses:</u></b>                                                                                                                                                                                                        |      |          |      |        |
| Carcasses shall be of 16mm marine plywood for all panels, with 3mm thick marine plywood back boards, unless otherwise stated.                                                                                                   |      |          |      |        |
| <b><u>Doors:</u></b>                                                                                                                                                                                                            |      |          |      |        |
| Doors shall be constructed in 16mm marine plywood and shall be fitted with minimum 3no. heavy duty soft close hinge per leaf, unless otherwise state.                                                                           |      |          |      |        |
| <b><u>Drawers:</u></b>                                                                                                                                                                                                          |      |          |      |        |
| Drawers shall be of 16mm marine plywood construction to bottoms, sides and fronts and shall be fitted with and including heavy duty G-Slide soft close full extension slide runners to the full length on both sides.           |      |          |      |        |
| <b><u>Handles:</u></b>                                                                                                                                                                                                          |      |          |      |        |
| Handles to drawers and short doors shall be "Gelmar" or equally approved brushed satin nickel bar handles (Product Code 8303)                                                                                                   |      |          |      |        |
| Handles to tall doors shall be "Gelmar" or equally approved brushed satin nickel bar handles (Product Code 8233)                                                                                                                |      |          |      |        |
| <b><u>Shelves:</u></b>                                                                                                                                                                                                          |      |          |      |        |
| Unless otherwise stated, shelving construction shall be of;                                                                                                                                                                     |      |          |      |        |
| 16mm Marine plywood coated, with approved shelf support pins or,                                                                                                                                                                |      |          |      |        |
| 25mm Marine plywood coated, with approved shelf support pins or,                                                                                                                                                                |      |          |      |        |
| 25mm Marine plywood shelves concealed fixed as indicated in the relevant item                                                                                                                                                   |      |          |      |        |
| <b><u>Supports and fixings:</u></b>                                                                                                                                                                                             |      |          |      |        |
| Floor mounted cupboards shall be fixed with 16 x 100mm plywood cleats.                                                                                                                                                          |      |          |      |        |
| Wall hung cupboards shall be fixed with 16 x 100mm MDF French cleats.                                                                                                                                                           |      |          |      |        |
| Countertops shall be fixed with 150 x 25mm galvanised steel brackets, soffit fixed.                                                                                                                                             |      |          |      |        |
| All timber fixings shall be fixed with approved galvanised countersunk wood screws.                                                                                                                                             |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                           |      |          | R    |        |
| Bill No. 7                                                                                                                                                                                                                      |      |          |      |        |
| Carpentry And Joinery                                                                                                                                                                                                           |      |          |      |        |

170  
Lm RY R-rr.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit | Quantity | Rate | Amount |
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| For fixing to walls, "Hilti" or equally approved plugs in conjunction with counter sunk wall screws shall be used.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
| <b><u>Bases and plinths:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| Bases and plinths shall be of 32mm thick plywood construction fixed to concrete floors with approved "Hilti" plugs and fixed to timber with approved countersunk wood screws.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| <b><u>Finishes:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |      |        |
| All plywood surfaces shall be lightly sanded and two coats approved clear matt varnish as per paintwork specifications.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |      |        |
| All marine plywood surfaces to be BB faced.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |
| All timber shall have an even and consistent high quality finish, and all cut edges of boards to be free from chips and dents.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      |        |
| The Contractor shall ensure that all boards are cut with a suitable blade.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| <b><u>NOTE: Tenderers are referred to the Architects joinery schedules appended elsewhere in this tender document when pricing the following items: Bidders are referred to the Architectural joinery drawings for the full details of the various joinery required. In any conflict between the Architectural drawings and the following descriptions, the Architectural drawings will take precedence. Pricing will be deemed inclusive of all requirements as per the Architectural specifications.</u></b>                                                                                                                                                       |      |          |      |        |
| <b><u>COMPOSITE FITTINGS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| The following 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, soft and hardwood, decorative plastic finish, formica, postforming, glass, ironmongery, metalwork, paint or varnish finishes, etc. In addition the rates for items must include for all cupboard, shelving, worktops, etc. all in accordance with the relevant Architects drawings appended elsewhere in this tender document. |      |          |      |        |
| Rates are to include for securely fixing the units in position with necessary approved fixings, or suitable fasteners when fixing to drywall partitions and for touching up and making good to any damaged paintwork or parts after the units have been installed.                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          | R    |        |
| Bill No. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| Carpentry And Joinery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |

171  
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|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------------|
| All dimensions are to be determined on site before fabrication.                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |              |
| <b><u>Prefabricated combination factory finished floor cupboards and worktops.</u></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |              |
| 28                                                                                     | 30mm "Rustenburg" or equally approved granite counter worktop unit overall size 6000mm long x 1280mm deep x 1140mm high with 3no. sections divided by half brick walls (brickwork elsewhere measured) with and including 4220mm long x 450mm deep x 1000mm high counter protrusion, counter constructed of steel framework and steel brackets, with and including lower mounted 32mm formica shelf overall size 6000mm long x 600mm deep x 520mm height mounted on steel bracket fixed to timber cleat, with and including 4 No. compartment cubicles all as per drawing number AR-T-605, 606 and 607 (Public Counter), appended elsewhere in this Bid document.                                                                                                                                                                                                                                                                                                                                                                                                                                  | No   | 1        |      |              |
| A&B 1                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |              |
| 29                                                                                     | 32mm Laminated "Saligna" or equally approved office counter L-shaped unit overall size 2950mm long x 650mm deep x 750mm high comprising of 2 sections with and including 19mm timber quadrant, first section sized approximately 1800mm long x 600 deep x 750mm high "Saligna" laminated counter built on angle brackets and timber cleat, with and including 450mm long x 500mm wide x 610mm high cupboard divided into upper and lower shelving with and including 15mm "Wisa" multiwall coated plywood door and 200mm "Roco" stainless steel bar handle, and 450mm long x 500mm wide x 610mm high drawer module of 3 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 16mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth, and second section size 1200mm long x 600mm deep x 750mm high "Saligna" laminated counter built on angle brackets and timber cleat all as per drawing number AR-T-608 and 609 (Office Counter - F3.01), appended elsewhere in this Bid document. | No   | 1        |      |              |
| A&B 1                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      |              |
| Carried to Collection                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          | R    |              |
| Bill No. 7<br>Carpentry And Joinery                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |          |      | 172<br>R. m. |

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit | Quantity | Rate | Amount       |
|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------------|
| 30                                  | 32mm Laminated "Saligna" or equally approved office counter unit overall size 1800mm long x 600mm deep x 750mm high with and including 19mm timber quadrant comprising of counter built on angle brackets and timber cleat, with and including 450mm long x 500mm wide x 610mm high drawer module of 3 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 16mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth, all as per drawing number AR-T-608 and 609 (Office Counter - F3.02), appended elsewhere in this Bid document. | No   | 1        |      |              |
|                                     | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |              |
| 31                                  | 32mm Laminated "Saligna" or equally approved office counter L-shaped unit overall size 5950mm long x 600mm deep x 750mm high comprising of 2 sections with and including 19mm timber quadrant, first section sized approximately 2950mm long x 600 deep x 750mm high "Saligna" laminated counter built on angle brackets and timber cleat, and second section size 3000mm long x 600mm deep x 750mm high "Saligna" laminated counter built on angle brackets and timber cleat all as per drawing number AR-T-608 and 610 (Office Counter - F3.03), appended elsewhere in this Bid document.                                                   | No   | 1        |      |              |
|                                     | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |              |
| 32                                  | 32mm Laminated "Saligna" or equally approved office counter unit overall size 2950mm long x 600mm deep x 750mm high comprising of counter with and including 19mm timber quadrant built on angle brackets and timber cleat, all as per drawing number AR-T-608 and 610 (Office Counter - F3.04), appended elsewhere in this Bid document.                                                                                                                                                                                                                                                                                                     | No   | 1        |      |              |
|                                     | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |              |
| 33                                  | 32mm Laminated "Saligna" or equally approved office counter L-shaped unit overall size 8000mm long x 600mm deep x 750mm high comprising of 2 sections with and including 19mm timber quadrant, first section sized approximately 5400mm long x 600 deep x 750mm high "Saligna" laminated counter built on angle brackets and timber cleat, and second section size 2600mm long x 600mm deep x 750mm high "Saligna" laminated counter built on angle brackets and timber cleat all as per drawing number AR-T-608 and 611 (Office Counter - F3.05), appended elsewhere in this Bid document.                                                   | No   | 3        |      |              |
|                                     | A&B 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |              |
| Carried to Collection               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          | R    |              |
| Bill No. 7<br>Carpentry And Joinery |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      | 173<br>R-rr. |

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | Quantity | Rate | Amount |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| 34 | 32mm Laminated "Saligna" or equally approved office counter unit overall size 4500mm long x 600mm deep x 750mm high comprising of counter with and including 19mm timber quadrant built on angle brackets and timber cleat, all as per drawing number AR-T-608 and 611 (Office Counter - F3.06), appended elsewhere in this Bid document.                                                                                                                                                                                                                                                             | No   | 3        |      |        |
|    | A&B 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |        |
| 35 | 32mm Laminated "Saligna" or equally approved interview counter unit overall size approximately 1400mm long x 800mm deep x 750mm high comprising of 100mm deep downturn to all exposed ends, with and including 19mm timber quadrant and counter built on 50 x 50 x 4mm galvanised mild steel angle brackets and timber cleat, all as per drawing number AR-T-604 and 632 (Interview counter - F20), appended elsewhere in this Bid document.                                                                                                                                                          | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |        |
| 36 | 32mm Laminated "Saligna" or equally approved bedroom counter unit overall size approximately 550mm long x 640mm deep x 750mm high comprising of 15mm plywood shelf and 15mm Wisa Multiwall coated plywood complete counter with and including 100mm deep downturn to all exposed ends, with and including 19mm timber quadrant and counter built between timber cupboard and brick wall with timber cleat, all as per drawing number AR-T-626 and 601-A (Bedroom counter - F3.7), appended elsewhere in this Bid document.                                                                            | No   | 10       |      |        |
|    | D 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |        |
| 37 | 15mm "WISA" or equally approved Multiwall coated plywood floor mounted cupboards overall size approximately 2000mm long x 600mm deep x 900mm high with and including 3 No. doors (including horizontal adjustable shelf), and with 1 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 16mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth, all as per drawing number AR-T-612 and 614 (Tea kitchen cupboard - F4.1), appended elsewhere in this Bid document. | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |        |

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27 R. N.

|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Unit | Quantity | Rate | Amount |
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| 38 | 15mm "WISA" or equally approved Multiwall coated plywood sink unit overall size approximately 1200mm long x 535mm deep x 900mm high with and including 2 No. doors (including horizontal adjustable shelf), and with 1 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 15mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth with adjustable legs, all as per drawing number AR-T-613 and 614 (Tea kitchen cupboard - F5.1), appended elsewhere in this Bid document. | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| 39 | 15mm "WISA" or equally approved Multiwall coated plywood floor mounted cupboards overall size approximately 2785mm long x 600mm deep x 900mm high with and including 6 No. doors (including horizontal adjustable shelf), and with 1 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 16mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth, all as per drawing number AR-T-612 and 615 (Staff Tea cupboard - F4.2), appended elsewhere in this Bid document.          | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| 40 | 15mm "WISA" or equally approved Multiwall coated plywood sink unit overall size approximately 1850mm long x 535mm deep x 900mm high with and including 2 No. doors (including horizontal adjustable shelf), and with 1 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 15mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth with adjustable legs, all as per drawing number AR-T-613 and 615 (Staff Tea cupboard - F5.2), appended elsewhere in this Bid document.   | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |

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175  
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|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|------------|
| 41                                  | 15mm "WISA" or equally approved Multiwall coated plywood sink unit overall size approximately 2400mm long x 535mm deep x 900mm high with and including 4 No. doors (including horizontal adjustable shelf), and with 2 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 15mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth with adjustable legs, all as per drawing number AR-T-613, 615 and 616 (Tea kitchen Plan - F5.3), appended elsewhere in this Bid document.                                                                                                                                                            | No   | 1        |      |            |
|                                     | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |            |
| 42                                  | 15mm "WISA" or equally approved Multiwall coated plywood sink unit overall size approximately 1200mm long x 535mm deep x 900mm high with and including 2 No. doors (including horizontal adjustable shelf), and with 1 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 15mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth with adjustable legs, all as per drawing number AR-T-613 and 617 (Tea kitchen Plan - F5.5), appended elsewhere in this Bid document.                                                                                                                                                                 | No   | 1        |      |            |
|                                     | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |            |
| 43                                  | 15mm "WISA" or equally approved Multiwall coated plywood L-shaped sink unit overall size approximately overall length 3835mm long x 535mm deep x 900mm high, first section sized approximately 2130mm long x 535mm deep x 900mm high and second section 1200mm long x 535mm deep x 900mm high with and including 5 No. doors (including horizontal adjustable shelf), and with 2 No. drawer unit of 4 drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 15mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth with adjustable legs, all as per drawing number AR-T-613 and 617 (Tea kitchen Plan - F5.4, F4.3), appended elsewhere in this Bid document. | No   | 10       |      |            |
|                                     | D 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |            |
| Carried to Collection               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          | R    |            |
| Bill No. 7<br>Carpentry And Joinery |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      | 176        |
| 88                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      | hurry R.m. |

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | Quantity | Rate | Amount      |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-------------|
| 44                    | 15mm "WISA" or equally approved Multiwall coated plywood floor mounted cupboards overall size approximately 1800mm long x 450mm deep x 750mm high with and including 3 No. doors for cupboards, and 3 No. drawers comprised of 15mm "Wisa" multiwall coated plywood, 600mm ball bearing drawer runner, 16mm drawer door, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber plinth including adjustable legs, all as per drawing number AR-T-604 and 628 (Credenza - F15), appended elsewhere in this Bid document.    | No   | 1        |      |             |
|                       | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |             |
| 45                    | 15mm "WISA" or equally approved Multiwall coated plywood floor mounted cupboards overall size approximately 1200mm long x 600mm deep x 2040mm high with and including 3 No. doors (including 2 No. horizontal adjustable shelf), and with 19mm Gelmar aluminium rails with Oval Ali center rail supports, and 200mm "Roco" stainless steel bar handle, complete with "Wisa" multiwall coated plywood timber skirting and adjustable legs, all as per drawing number AR-T-626, 601-A, and 604-A (Residential cupboard - F13), appended elsewhere in this Bid document. | No   | 10       |      |             |
|                       | D 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |             |
|                       | <b><u>Prefabricated combination factory finished wall cupboards:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |      |             |
| 46                    | 15mm "WISA" or equally approved multiwall coated plywood wall unit overall size approximately 1650 x 300mm deep x 600mm high with and including 4no. doors (including 2No. 15mm Wisa multiwall coated plywood horizontal shelves), and handles, hinges etc. all as per drawing number AR-T-612 and 613 (Lecture tea - F06, F5.2), appended elsewhere in this Bid document.                                                                                                                                                                                            | No   | 1        |      |             |
|                       | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |             |
| 47                    | 15mm "WISA" or equally approved multiwall coated plywood wall unit overall size approximately 1200 x 300mm deep x 600mm high with and including 3no. doors (including 2No. 15mm Wisa multiwall coated plywood horizontal shelves), and handles, hinges etc. all as per drawing number AR-T-613, 614, and 604 (Kitchen Counter - F5.1), appended elsewhere in this Bid document.                                                                                                                                                                                       | No   | 1        |      |             |
|                       | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |             |
| Carried to Collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          | R    |             |
| Bill No. 7            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      | 177         |
| Carpentry And Joinery |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      | Lat 27 R.m. |

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| 48 | 15mm "WISA" or equally approved multiwall coated plywood wall unit overall size approximately 2785 x 300mm deep x 600mm high with and including 7no. doors (including 2No. 15mm Wisa multiwall coated plywood horizontal shelves), and handles, hinges etc. all as per drawing number AR-T-612 and 615 (Staff tea - F06.1, F4.2), appended elsewhere in this Bid document.                                                                                                                                                                                                          | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 49 | 15mm "WISA" or equally approved multiwall coated plywood wall unit overall size approximately 2400 x 300mm deep x 600mm high with and including 6no. doors (including 2No. 15mm Wisa multiwall coated plywood horizontal shelves), and handles, hinges etc. all as per drawing number AR-T-612 and 616 (Tea Kitchen Plan - F06.1, F5.3), appended elsewhere in this Bid document.                                                                                                                                                                                                   | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 50 | 15mm "WISA" or equally approved multiwall coated plywood wall unit overall size approximately 1750 x 300mm deep x 600mm high with and including 4no. doors (including 2No. 15mm Wisa multiwall coated plywood horizontal shelves) all as per drawing number AR-T-612 and 617 (Tea Kitchen Plan - F06.1, F4.3), appended elsewhere in this Bid document.                                                                                                                                                                                                                             | No   | 10       |      |        |
|    | D 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |
|    | <b><u>Prefabricated combination factory finished timber hardwood stools etc.:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 51 | Purpose made seat with overall size 400mm diameter x 50mm thick hardwood timber seat with 15mm radiused all round and fixed with 6 number 40mm long wood screws to and including support structure fixed to floor, formed of 500mm high x 100mm diameter x 3mm thick steel hollow section support member with 300mm x 6mm thick top flange and 300 x 300mm x 6mm bottom flange welded on and bolted to floor with and including 4 number M12 expansion bolts,) all as per drawing number AR-T-601 and 632 (Interview counter seat - F18 ), appended elsewhere in this Bid document. | No   | 4        |      |        |
|    | A&B 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
|    | <b><u>Prefabricated combination timber shelving etc.:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      |        |
| 52 | 32mm Thick laminated timber shelving size 2600mm long x 300mm deep x 1000mm high fixed to wall with and including galvanised mild steel brackets and galvanised mild steel wall bands, all as per drawing number AR-T-625 (Wall band shelving - F12 ), appended elsewhere in this Bid document.                                                                                                                                                                                                                                                                                     | No   | 12       |      |        |
|    | A&B 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |      |        |

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| <b><u>Prefabricated combination timber bench etc.:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| <b><u>85mm wide x 25mm Thick timber slatted bench with and including back rest with and fixed to mild steel frames, bracings and fixing bolts, all as per drawing number AR-T-619 (Public timber bench section - F08 ), appended elsewhere in this Bid document.</u></b>                                                                                                                                                                                          |      |          |      |        |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No   | 1        |      |        |
| Size approximately 4200mm long x 510mm wide x 480mm high seat and 4170mm long x 220mm high back rest                                                                                                                                                                                                                                                                                                                                                              |      |          |      |        |
| A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |
| <b><u>85mm wide x 25mm Thick timber slatted bench with and fixed to mild steel frames, bracings and fixing bolts, all as per drawing number AR-T-620 (Public timber bench section - F09 ), appended elsewhere in this Bid document.</u></b>                                                                                                                                                                                                                       |      |          |      |        |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No   | 1        |      |        |
| Size approximately 2000mm long x 510mm wide x 480mm high seat                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No   | 1        |      |        |
| Size approximately 900mm long x 510mm wide x 480mm high seat                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |
| <b><u>THE FOLLOWING IN MODULAR BOLTED STEEL SHELVING UNITS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |
| <b><u>Modular steel shelving units, with 6no. horizontal shelves, including angles, bracing and shelves all to be 0.8mm thick Galvanised Mild Steel and Class 2 powder coated, units to be fixed by an approved installer and in accordance with manufacturers details, all as per the relevent Architectural drawings, including all necessary fixings, plates, bolts, etc. to render a complete installation to the satisfaction of the Principal Agent</u></b> |      |          |      |        |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No   | 2        |      |        |
| Modular steel shelving units, overall size approximately 1260mm long x 600mm wide x 2068mm high with 6no. horizontal shelves, including angles, bracing and shelves all to be 0.8mm thick Galvanised Mild Steel and Class 2 powder coated, units to be fixed by an approved installer and in accordance with manufacturers details, all as per drawing number AR-T-601-A and 622 (Light duty racking - F11 ), appended elsewhere in this Bid document.            |      |          |      |        |
| A&B 2                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit | Quantity | Rate | Amount |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| 57                    | Modular steel shelving units, overall size approximately 1560mm long x 600mm wide x 2068mm high with 6no. horizontal shelves, including angles, bracing and shelves all to be 0.8mm thick Galvanised Mild Steel and Class 2 powder coated, units to be fixed by an approved installer and in accordance with manufacturers details, all as per drawing number AR-T-601 and 622 (Light duty racking - F11), appended elsewhere in this Bid document. | No   | 2        |      |        |
|                       | A&B 2                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 58                    | Modular steel shelving units, overall size approximately 1860mm long x 600mm wide x 2068mm high with 6no. horizontal shelves, including angles, bracing and shelves all to be 0.8mm thick Galvanised Mild Steel and Class 2 powder coated, units to be fixed by an approved installer and in accordance with manufacturers details, all as per drawing number AR-T-601 and 622 (Light duty racking - F11), appended elsewhere in this Bid document. | No   | 7        |      |        |
|                       | A&B 7                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| Carried to Collection |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          | R    |        |
| Bill No. 7            |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |
| Carpentry And Joinery |                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      |        |

180  
ham NJ R.m.

Amount

**SECTION NO. 2**

**BILL NO. 7**

**CARPENTRY AND JOINERY**

**COLLECTION**

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Carried to Summary

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Bill No. 7

Carpentry And Joinery

181  
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Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BILL NO. 8**

**CEILINGS PARTITIONS AND ACCESS FLOORING**

**(CPAP WORK GROUP NO. 129 UNLESS OTHERWISE STATED)**

| <u>Key:</u> | <u>Location Description:</u> |
|-------------|------------------------------|
| Un/A        | Unallocated                  |
| Item        | Item Location                |
| A&B         | A&B: Main & Cleaners         |
| C           | C: Power & Water Mgt         |
| D           | D1&D2: Residences            |
| E           | E: Refuse Room               |

The bidder is referred to the relevant clauses in the ASAQS General Preambles for Trades (2017 Edition), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/alterd. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | Quantity | Rate | Amount |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|--------|
| <p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include references to drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from failure to comply with any of the above will be entertained.</p> <p><b><u>Labour Intensive (LI)</u></b></p> <p>Bidders are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the words "Labour Intensive" at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised, or other systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills.</p> <p><b><u>Fixing</u></b></p> <p>Items described as 'nailed' shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p> <p>Items described as 'plugged' shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as 'bolted', the bolts have been given elsewhere</p> <p><b><u>Ceilings</u></b></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><b><u>Bulkheads</u></b></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      | R      |
| Bill No. 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |
| Ceilings Partitions And Access Flooring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |

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| Unless otherwise described bulkheads shall be deemed to be horizontal along the length                                                                                                                                                                                                                                                                                                                |      |          |      |        |
| <b><u>Steel components</u></b>                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121                                                                                                                                                                                                                                                                                                  |      |          |      |        |
| <b><u>Grid system to suspended ceilings:</u></b>                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| All grids to suspended ceilings shall be inspected and certified as approved by the manufacturer prior to the installation of ceiling boards. Should this not be strictly adhered to, the contractor will be instructed to remove all ceiling boards, and achieve the above manufacturers approval at his own expense, and with any consequential delay to the contract period being for his account. |      |          |      |        |
| <b><u>DRYWALL PARTITIONING</u></b>                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
| <b><u>CONTROL JOINTS</u></b>                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |
| Control joints may be required in the partition to relieve stresses induced by expansion and contraction of the structure. Control joints shall be included for in the rates where any of the conditions listed below exist.                                                                                                                                                                          |      |          |      |        |
| 1. Where excessive movement is likely to occur.                                                                                                                                                                                                                                                                                                                                                       |      |          |      |        |
| 2. Where a drywall, or ceiling traverses movement joint within the surrounding structure.                                                                                                                                                                                                                                                                                                             |      |          |      |        |
| The width of the drywall control joint shall be equal to that of structure.                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| 3. Where a drywall is exposed to variable or extreme temperatures and the wall runs in an uninterrupted straight plane exceeding 12m in length NOTE: Full height door frames may be considered as a control joint. The width of the control joint shall be a minimum of 7mm.                                                                                                                          |      |          |      |        |
| 4. Where the building/substrate structural system/material changes.                                                                                                                                                                                                                                                                                                                                   |      |          |      |        |
| <b><u>MAXIMUM ALLOWABLE HEIGHT</u></b>                                                                                                                                                                                                                                                                                                                                                                |      |          |      |        |
| The criterion is that the maximum lateral deflection of the drywall should not exceed L/240 (where L is the drywall height) when the drywall is uniformly loaded to 200Pa.                                                                                                                                                                                                                            |      |          |      |        |
| Vertical Joints:                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| 1. Lightly butt boards together.                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| 2. Centre joints on studs. Ensure that joints on opposite sides of studs are staggered. For double layer boarding, stagger joints between layers.                                                                                                                                                                                                                                                     |      |          |      |        |
| Horizontal Joints:                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
| 1. RhinoBoards: Lightly butt boards together.                                                                                                                                                                                                                                                                                                                                                         |      |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                 |      |          | R    |        |
| Bill No. 8                                                                                                                                                                                                                                                                                                                                                                                            |      |          |      |        |
| Ceilings Partitions And Access Flooring                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |

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| <p>2. Horizontal joints are not recommended in walls up to a height of 3600mm</p> <p>3. Horizontal joints may impinge on the aesthetics of a jointed wall. Consequently the position of horizontal joints should be agreed upon with the Architect or Designer.</p> <p>4. For two layer lining, stagger joints between layers by at least 600mm. Provide horizontal framing to support the horizontal edges of the first layer lining.</p> <p>Deflection Heads:</p> <p>1. To be specified by the project structural engineer when necessary.</p> <p>Stud Centres:</p> <p>Refer to GYPROC or equally approved Drywall Table for technical data including maximum permissible heights at</p> <p>600mm, 400mm and 300mm centres.</p> <p><b><u>CEILING TIMBERS, BEADS, INSULATION, ETC</u></b></p> <p><b><u>"Isover Energylite" or equally approved insulation</u></b></p> |                |          |      |        |
| 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 764      |      |        |
| <p>"Isover Energylite" or equally approved insulation layer approximately 100mm thick comprised of 50mm thick insulation board and 50mm thick insulation blanket. (LI)</p> <p>A&amp;B 410 C 38 D 291<br/>E 25</p> <p><b><u>NAILED-UP CEILINGS</u></b></p> <p><b><u>9mm Nutec or equally approved plain medium density fibre cement ceiling, with supporting structures at 600mm cc, fixings per manufacturers specification (K18)</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                          |                |          |      |        |
| 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 48       |      |        |
| <p>Ceilings including brandering at 600mm centres and fixings at 300mm centres</p> <p>D 48</p> <p><b><u>Cornices to nailed-up ceilings</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |          |      |        |
| 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m              | 86       |      |        |
| <p>Shadowline cornice trim 20mm in satin white epoxy coated aluminium finish to be installed to strict accordance and specifications of Specialist Manufacturers, per specification document (K7). (LI)</p> <p>D 86</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |      |        |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |      | R      |
| Bill No. 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |          |      |        |
| Ceilings Partitions And Access Flooring                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                |          |      |        |

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| <b>SUSPENDED CEILINGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |          |      |        |
| <u>600x600mm suspended ceiling tiles, 12mm Foil backed, white vinyl faced gypsum ceiling tile, per Pelican Econotile, in suspended ceiling grid, per Pelican Econogrid, pre-painted white exposed tee grid system, with Fire punch outs. Main tees suspended by means of 19 x 0.5mm Gms strap / 2.5mm gms wire hangers at 1200mm cc, installed as per manufactureres instruction. (K23)</u>                                                                                                                                                                                                                                                                                                            |                |          |      |        |
| 4 Ceilings suspended not exceeding 1m below timber trusses. (LI)<br>A&B 249                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | m <sup>2</sup> | 249      |      |        |
| <u>Supply and install 3600mm Jumbo main tees at 1200mm centres in one direction and 1200mm (9mm) Jumbo cross tees at 400mm centres perpendicular to main tees. Main tees to be suspended at 1200mm centres by means of 25 x 25 x 0.6mm galvanised steel angle, hangers fixed to bulb of main tee with wafer tek screws/steel pop rivets and to slab with 6 x 30mm express nails and washers. Fit 9 mm Jumbo Plasterboard to the underside of grid system with tapered edge of board facing down with 25mm drywall screws at 150mm centres. Apply 50mm JUMBO tape to all joints and finish the entire ceiling with 3-5mm JUMBO Skimming Plaster, installed as per manufactureres instruction.. (K4)</u> |                |          |      |        |
| 5 Ceilings suspended not exceeding 1m below timber trusses. (LI)<br>A&B 161 D 243                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | m <sup>2</sup> | 404      |      |        |
| <u>Calcium Silicate Ceiling to comply with SANS 10177 Part 3. Supply and install Pelican Econocal Calcium Silicate ceiling tiles size 600 x 600 x 6mm with White vinyl face finish and aluminium foil backing laid onto Pelican Econogrid pre-painted white exposed tee grid system including fire safety punch outs. Main tees suspended by means of 19 x 0.5mm GMS strap/2.5mm wire hangers at 1200mm centres. Ceiling perimeter to be finished with prepainted shadow trims, installed as per manufactureres instruction (K16).</u>                                                                                                                                                                 |                |          |      |        |
| 6 Ceilings suspended not exceeding 1m below trusses. (LI)<br>C 38 E 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m <sup>2</sup> | 63       |      |        |

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Bill No. 8

Ceilings Partitions And Access Flooring

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|                                              |                                                                                                                                                                                                      | Unit | Quantity | Rate | Amount     |
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| <b><u>Cornices to suspended ceilings</u></b> |                                                                                                                                                                                                      |      |          |      |            |
| 7                                            | Wall angle trim 20mm in satin white epoxy coated aluminium finish to be installed to strict accordance and specifications of Specialist Manufacturers, per specification document (K6). (LI)         | m    | 251      |      |            |
|                                              | A&B 191 C 40 E 20                                                                                                                                                                                    |      |          |      |            |
| 8                                            | Shadowline cornice trim 20mm in satin white epoxy coated aluminium finish to be installed to strict accordance and specifications of Specialist Manufacturers, per specification document (K7). (LI) | m    | 85       |      |            |
|                                              | A&B 85                                                                                                                                                                                               |      |          |      |            |
| Carried to Collection                        |                                                                                                                                                                                                      |      |          |      | R          |
| Bill No. 8                                   |                                                                                                                                                                                                      |      |          |      | 187        |
| Ceilings Partitions And Access Flooring      |                                                                                                                                                                                                      |      |          |      | km RJ R-m. |

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SECTION NO. 2

BILL NO. 8

CEILINGS PARTITIONS AND ACCESS FLOORING

COLLECTION

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Bill No. 8

Ceilings Partitions And Access Flooring

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**188**

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Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BILL NO. 9**

**FLOOR COVERINGS**

**(CPAP WORK GROUP NO. 130 UNLESS OTHERWISE STATED)**

| <u>Key:</u> | <u>Location Description:</u> |
|-------------|------------------------------|
| Un/A        | Unallocated                  |
| Item        | Item Location                |
| A&B         | A&B: Main & Cleaners         |
| C           | C: Power & Water Mgt         |
| D           | D1&D2: Residences            |
| E           | E: Refuse Room               |

The bidder is referred to the relevant clauses in the ASAQS General Preambles for Trades (2017 Edition), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/altered. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit | Quantity | Rate | Amount  |
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| <b><u>Drawings:</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |         |
| Tenderers are to note that where descriptions include references to drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from failure to comply with any of the above will be entertained.                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |      |         |
| <b><u>Labour Intensive (LI)</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |          |      |         |
| Bidders are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the words "Labour Intensive" at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised, or other systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills. |      |          |      |         |
| <b><u>FLOOR COVERINGS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |          |      |         |
| Floor coverings, wall linings, etc. shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |      |         |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          | R    |         |
| Bill No. 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      | 190     |
| Floor Coverings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |          |      | R7 R-m. |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit           | Quantity | Rate | Amount       |
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| <b>"Antistatic Vinyl Sheeting"</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |          |      |              |
| 1 Supply and fix 2.0mm thick x 2.0m wide FloorworX SD or equally approved directional static dissipative vinyl sheeting, manufactured in accordance with EN 649 and laid over an earthed grid of aluminium tape in FloorworX No.27 conductive acrylic adhesive which has been spread using a trowel fitted with an A2 notched blade at a rate of between 5.5m <sup>2</sup> and 6.5m <sup>2</sup> per litre on a previously prepared Class 1 sub-floor in accordance with SANS 10070, using FloorworX Self Leveller when required, including all cutting and waste. The sheeting must be rolled in both directions with an articulated 68kg three-sectional roller immediately after it has been laid into the adhesive. Joins must be butted, grooved and heat welded using the manufacturer's welding rod, ensuring that the welding rod bonds to more than 70% of the sheet thickness. After completing the installation the floor must be electrically tested for resistivity in accordance with the requirements of SANS 6160. Colour: Pewter FSD0130 (LI) | m <sup>2</sup> | 11       |      |              |
| A&B 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |      |              |
| <b><u>SKIRTINGS, NOSINGS, ETC</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |          |      |              |
| <b><u>Supply and fix FloorworX Extruda or equally approved Vinyl skirting, welded to floor sheeting, code MCB100, of size 100 mm Height x14mm Width. Colour to match adjoining flooring. Provisionally Ash Grey.</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                |          |      |              |
| 2 Cod MCB100 on floors. (LI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | m              | 6        |      |              |
| A&B 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |          |      |              |
| <b><u>POLISH, SEALERS, ETC</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |          |      |              |
| <b><u>Polish, Sealers, etc.</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |          |      |              |
| 3 Thoroughly clean down and wash, strip with an amonia based stripping agent and apply three coats of approved polyurethane sealer in strict accordance with the manufacturers instructions on vinyl tiles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m <sup>2</sup> | 11       |      |              |
| A&B 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |          |      |              |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                |          | R    |              |
| Bill No. 9<br>Floor Coverings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                |          |      | 191<br>R-rr. |
| 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |          |      |              |

Amount

**SECTION NO. 2**

**BILL NO. 9**

**FLOOR COVERINGS**

**COLLECTION**

Page No

Brought Forward from Page

101

102

103

Carried to Summary

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Bill No. 9  
Floor Coverings

104

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Unit      Quantity      Rate      Amount

**SECTION NO. 2**

**BILL NO. 10**

**IRONMONGERY**

**(CPAP WORK GROUP NO. 132 UNLESS OTHERWISE STATED)**

| <u>Key:</u> | <u>Location Description:</u> |
|-------------|------------------------------|
| Un/A        | Unallocated                  |
| Item        | Item Location                |
| A&B         | A&B: Main & Cleaners         |
| C           | C: Power & Water Mgt         |
| D           | D1&D2: Residences            |
| E           | E: Refuse Room               |

The bidder is referred to the relevant clauses in the ASAQS General Preambles for Trades (2017 Edition), to the Architectural and Structural/Civil Engineering specifications documents, to the drawings (which are to be read in conjunction with the architectural specification), and to all general and project-specific specifications as contained in the complete Bid Documents. Bidders are thus urged to study these documents as rates will be deemed to be inclusive of all requirements as included in same. Further, should any discrepancy be noted between these Bills of Quantities and the Specifications, the Specifications shall take precedence.

Further to the above, Bidders are to note that the latest edition of SANS 10400, current at the time of the tender will form part of the specifications to this contract and as such, pricing shall be deemed to include for complete conformance in all respects to the requirements of SANS 10400.

**SUPPLEMENTARY PREAMBLES**

**Working at Heights:**

Bidders are to note that the work to be undertaken will require all necessary scaffolding, due to the heights of the structures to be constructed/altered. Bidders are to therefore price accordingly as rates will be deemed to include for same and no further claims in regard to all necessary scaffolding in the completion of the scope of works will be entertained.

Carried to Collection

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Bill No. 10  
Ironmongery

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193  
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit | Quantity | Rate | Amount      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----------|------|-------------|
| <p><b><u>Labour Intensive (LI)</u></b></p> <p>Bidders are to note well that specific items within these Bills of Quantities have been designated as LABOUR INTENSIVE by the addition of the words "Labour Intensive" at the end of the description for the said item. Where items have been designated as being LABOUR INTENSIVE as described, pricing shall be deemed to include for the carrying out to completion of said item on site by means and methods that rely predominantly on manual labour. As such, no claims shall be entertained regarding any additional time or monetary costs incurred by the use of LABOUR INTENSIVE methods. Further, the Contractor is to note that contravention of the above i.e. use of mechanised, or other systems to carry out LABOUR INTENSIVE work as hereinafter designated, will be viewed and dealt with in an extremely serious light by the Client, as it remains a national imperative to develop, employ and provide skills.</p> <p><b><u>Proprietary items</u></b></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items. Prices are to be based on the specific products/articles specified. If bidders wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc. clarifying the features of the products/articles offered. On request returnable samples are to be provided to the principal agent for consideration</p> <p><b><u>Finishes to ironmongery</u></b></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <p><b><u>Drawings:</u></b></p> <p>Tenderers are to note that where descriptions include references to drawings which form part of the tender documentation, notwithstanding anything contained in the description, tenderers are to price these items in accordance with the drawings. Further, the onus is on the tenderer to ensure that all relevant drawings referenced in the Bills of Quantities are included in the tender documents. No further time or monetary claims resulting from failure to comply with any of the above will be entertained.</p> |      |          |      |             |
| Carried to Collection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |          |      | R           |
| Bill No. 10<br>Ironmongery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |      | 194<br>R-r. |

|                                                                     |                                                                                              |   |    |   | Unit  | Quantity | Rate | Amount |
|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------|---|----|---|-------|----------|------|--------|
| <b><u>HINGES, FLOOR SPRING HINGES, BOLTS, PANIC BOLTS, ETC.</u></b> |                                                                                              |   |    |   |       |          |      |        |
| <b><u>"Union" or equally approved</u></b>                           |                                                                                              |   |    |   |       |          |      |        |
| 1                                                                   | Hinges fixed to pre threaded backing plate with CS M5 stainless steel allan cap screws. (LI) |   |    |   | Pairs | 87       |      |        |
|                                                                     | A&B 54                                                                                       | C | 3  | D |       |          |      |        |
| 2                                                                   | Flush bolts. (LI)                                                                            |   |    |   | No    | 8        |      |        |
|                                                                     | A&B 6                                                                                        | C | 2  |   |       |          |      |        |
| <b><u>LOCKS</u></b>                                                 |                                                                                              |   |    |   |       |          |      |        |
| <b><u>"Union" or equally approved</u></b>                           |                                                                                              |   |    |   |       |          |      |        |
| 3                                                                   | Union Euro-profile thumb turn cylinder lock. (LI)                                            |   |    |   | No    | 47       |      |        |
|                                                                     | A&B 25                                                                                       | C | 2  | D |       |          |      |        |
| 4                                                                   | "SS5306-73SS" WC indicator latch. (LI)                                                       |   |    |   | No    | 19       |      |        |
|                                                                     | A&B 9                                                                                        | D | 10 |   |       |          |      |        |
| 5                                                                   | "24313-76SS" Claw lock. (LI)                                                                 |   |    |   | No    | 10       |      |        |
|                                                                     | D 10                                                                                         |   |    |   |       |          |      |        |
| <b><u>"Union" or equally approved deadlocks</u></b>                 |                                                                                              |   |    |   |       |          |      |        |
| 6                                                                   | "21314-76/8SS" 8mm dead lock. (LI)                                                           |   |    |   | No    | 9        |      |        |
|                                                                     | A&B 9                                                                                        |   |    |   |       |          |      |        |
| 7                                                                   | 78mm Mortice roller latch dead lock. (LI)                                                    |   |    |   | No    | 43       |      |        |
|                                                                     | A&B 21                                                                                       | C | 2  | D |       |          |      |        |
| 8                                                                   | Helping hand paraplegic indicator latch with paraplegic facility roller latch. (LI)          |   |    |   | No    | 2        |      |        |
|                                                                     | A&B 2                                                                                        |   |    |   |       |          |      |        |
| <b><u>"Union" or equally approved escutcheon</u></b>                |                                                                                              |   |    |   |       |          |      |        |
| 9                                                                   | Stainless steel escutcheon to suite. (LI)                                                    |   |    |   | Pairs | 47       |      |        |
|                                                                     | A&B 25                                                                                       | C | 2  | D |       |          |      |        |
| <b><u>HANDLES</u></b>                                               |                                                                                              |   |    |   |       |          |      |        |
| <b><u>"Assa Abloy" or equally approved pull handles</u></b>         |                                                                                              |   |    |   |       |          |      |        |
| 10                                                                  | "SS Kinglet" 200 x 22mm Square pull handle BTB. (LI)                                         |   |    |   | No    | 56       |      |        |
|                                                                     | A&B 34                                                                                       | C | 2  | D |       |          |      |        |
| 11                                                                  | "PHD-CF-300-22SS" Pull handle (LI)                                                           |   |    |   | No    | 4        |      |        |
|                                                                     | A&B 4                                                                                        |   |    |   |       |          |      |        |
| <b><u>"Union" or equally approved pull handles</u></b>              |                                                                                              |   |    |   |       |          |      |        |
| 12                                                                  | "99004SS" Flush square pull handle. (LI)                                                     |   |    |   | No    | 10       |      |        |
|                                                                     | D 10                                                                                         |   |    |   |       |          |      |        |
| Carried to Collection                                               |                                                                                              |   |    |   |       |          | R    |        |
| Bill No. 10<br>Ironmongery                                          |                                                                                              |   |    |   |       |          |      |        |

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| <b><u>PUSH PLATES AND KICK PLATES</u></b>                                                                                                                          |                                                                                                                   |      |          |      |        |
| <b><u>"Union" or equally approved, 2mm Thick Stainless steel plates fixed with and including countersunk screws along edges at not exceeding 200mm centres</u></b> |                                                                                                                   |      |          |      |        |
| 13                                                                                                                                                                 | 200mm x 900mm x 2mm "SS5089" Stainless Steel Push Plate with 4 holes including galvanised mild steel screws. (LI) | No   | 4        |      |        |
|                                                                                                                                                                    | A&B 4                                                                                                             |      |          |      |        |
| 14                                                                                                                                                                 | 200mm x 750mm x 2mm "SS5089" Stainless Steel Push Plate with 4 holes including galvanised mild steel screws. (LI) | No   | 19       |      |        |
|                                                                                                                                                                    | A&B 9 D 10                                                                                                        |      |          |      |        |
| <b><u>SLIDING GEAR</u></b>                                                                                                                                         |                                                                                                                   |      |          |      |        |
| <b><u>"Hilaldam Husky" or equally approved</u></b>                                                                                                                 |                                                                                                                   |      |          |      |        |
| 15                                                                                                                                                                 | "Husky 50 kit (H50/18A)" 950mm aluminium track                                                                    | No   | 10       |      |        |
|                                                                                                                                                                    | D 10                                                                                                              |      |          |      |        |
| <b><u>BATHROOM FITTINGS</u></b>                                                                                                                                    |                                                                                                                   |      |          |      |        |
| <b><u>"Serra" or equally approved</u></b>                                                                                                                          |                                                                                                                   |      |          |      |        |
| 16                                                                                                                                                                 | "Ref SD2003" Stainless steel anti-bac soap manual operation soap dispenser, plugged. (LI)                         | No   | 12       |      |        |
|                                                                                                                                                                    | A&B 11 D 1                                                                                                        |      |          |      |        |
| 17                                                                                                                                                                 | "Ref SD1353" TR3 MR range roll, white finish lockable toilet roll holder, plugged. (LI)                           | No   | 20       |      |        |
|                                                                                                                                                                    | A&B 10 D 10                                                                                                       |      |          |      |        |
| 18                                                                                                                                                                 | "Ref SD1353" TR2 MR range roll, white finish lockable toilet roll holder, plugged. (LI)                           | No   | 3        |      |        |
|                                                                                                                                                                    | A&B 2 D 1                                                                                                         |      |          |      |        |
| 19                                                                                                                                                                 | 60cm "Ref SAD5324" Stainless steel towel rail, plugged.                                                           | No   | 13       |      |        |
|                                                                                                                                                                    | A&B 3 D 10                                                                                                        |      |          |      |        |
| 20                                                                                                                                                                 | Ecoflex streamline "Ref SD1122" Stainless steel manual operation paper towel dispenser, plugged. (LI)             | No   | 12       |      |        |
|                                                                                                                                                                    | A&B 12                                                                                                            |      |          |      |        |
| 21                                                                                                                                                                 | Slimline Dispor "Ref SD1127" stainless steel wall waste bin, plugged. (LI)                                        | No   | 12       |      |        |
|                                                                                                                                                                    | A&B 12                                                                                                            |      |          |      |        |
| 22                                                                                                                                                                 | Petit pedal operated "Ref SD1502" freestanding sanitary bin (LI)                                                  | No   | 7        |      |        |
|                                                                                                                                                                    | A&B 7                                                                                                             |      |          |      |        |
| Carried to Collection                                                                                                                                              |                                                                                                                   |      |          | R    |        |
| Bill No. 10                                                                                                                                                        |                                                                                                                   |      |          |      |        |
| Ironmongery                                                                                                                                                        |                                                                                                                   |      |          |      |        |

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|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | Quantity | Rate | Amount |
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|    | <b><u>"Kwikot" or equally approved</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 23 | Heavy duty recessed toilet roll holder Manufactured from 1,6mm Grade 304 (18/10) Stainless Steel. 118mmØ x 110mm deep. Square Face Plate (180mm L x 180mm B) complete with 4x pre-cut M6 holes for fastening to wall with security screws or roll bolt, plugged. (LI)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No   | 2        |      |        |
|    | A&B 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
|    | <b><u>"Doccia" or equally approved</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
| 24 | Grade 304 stainless steel medium soap basket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No   | 12       |      |        |
|    | A&B 2 D 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |
|    | <b><u>"Nuwkem Ticra" or equally approved</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |          |      |        |
| 25 | "Ref TICZA" wall mounted stainless steel 1400W/550W energy saving electric hand dryer with HEPA filter.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | No   | 8        |      |        |
|    | A&B 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
|    | <b><u>SIGNAGE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
|    | The reference given in these descriptions are of the respective types of signage detailed on the architects drawings accompanying these bills of quantities for tender purposes. Tenderers are to price these items in accordance with the drawings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
|    | <b><u>PURPOSE MADE ENTRANCE SIGNAGE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |          |      |        |
| 26 | 500mm high x 1500mm length Aluminium Maisey Cosign Modular Plus Outdoor signage system, with and including, code: A00 3 808IT 80mm slotted octagonal post (Black), with ABS end plate A0T808-3 size 200 x 200 x 8mm, fitted to concrete footings (Elsewhere measured). Signage plates in code A00 2 250 - Anodised 250mm double sided aluminium lettering panel, with and including all fittings. Signage artwork in Avery Dennison 700 premium film with red lettering and arrows, Colour code: Dulux 05YR 15/555, text font in "Arial" 80mm High on full clear vinyl backing and stuck to 3mm thick natural anodised aluminium. Sign to be 750mm from F.G.L on posts fixed to concrete footings, all as per architectural drawing: AR-T-404-02/03 (N4) | No   | 2        |      |        |
|    | A&B 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |

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| 27 | 500mm high x 1500mm length Aluminium Maisey Cosign Modular Plus Outdoor signage system, with and including, code: A00 3 808IT 80mm slotted octagonal post (Black), with ABS end plate A0T808-3 size 200 x 200 x 8mm, fitted to concrete footings (Elsewhere measured). Signage plates in code A00 2 250 - Anodised 250mm double sided aluminium lettering panel, with and including all fittings. Signage artwork in Avery Dennison 700 premium film, lettering depicting "NTSHONGWE POLICE STATION" to top panel, to be coloured red (Duluz 05YR 15/555), "Arial " text at 85mm high and lettering depicting "COMMUNITY SERVICE CENTRE" to bottom panel, to be coloured black, "Arial " text at 85mm high, all lettering to be on full clear vinyl backing and stuck to 3mm thick natural anodised aluminium sheet. Sign to be 750mm from F.G.L on posts fixed to concrete footings, all as per architectural drawing: AR-T-404-04 (N5) | No   | 4        |      |        |
|    | A&B 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
| 28 | Overall size 750mm x 200mm high main entrance door signage, with sign framing in Maisey Cosign I-Sign Display range signage system, single sided anodised aluminium profile of frame size 25 x 30mm section (code ID-SS 2000) and with ID-SS corner joiners. Digital print of black lettering of "Arial" text at 60mm high, on clear vinyl, stuck to 0.5mm aluminium. Sign to be 2094mm from F.G.L, all as per architectural drawing: AR-T-404-04 (N6)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No   | 1        |      |        |
|    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |          |      |        |
|    | <b><u>PURPOSE MADE COMBINATION SIGNAGE</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |          |      |        |
| 29 | Overall size 500mm x 150mm high combination sign, comprising of a single sided profile Maisey Cosign Strato Indoors signage system wall mounted sign, code: ST-150500-W in a white background with black lettering in Arial font at 40mm high and Maisey Cosign Strato Indoors projected signage system, double sided profile wall mounted size 150 x 210mm Code: ST-150210-P, all as per architectural drawing: AR-T-404-05 (N9)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No   | 33       |      |        |
|    | A&B 20 C 2 D 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |          |      |        |
|    | E 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |          |      |        |
| 30 | 150 x 210mm combination signage sign framing in Maisey Cosign Strato Indoors signage system, wall mounted single sided profile Code: ST-150210-W and Maisey Cosign Strato Indoors projected signage system double sided profile CODE: ST-150210-P, signage artwork in Avery Dennison 700 premium film, all as per architectural drawing AR-T-404-05 (N10)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | No   | 12       |      |        |
|    | A&B 11 E 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |          |      |        |

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| <b><u>WALL MOUNTED SIGNAGE</u></b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      |        |
| 31                                 | 425mm High x 5mm thick steel individual lettering in "Arial" font read as "NTSHONGWE POLICE STATION", welded to 40x16mm flat bar rail fixed to wall with 12mmØ x 120mm long pins epoxied into brick wall, all as per architectural drawing: AR-T-404-02/03 (N1, N2)                                                                                                                                                                                                                                                                                    | No   | 1        |      |        |
|                                    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |        |
| 32                                 | 1200 x 1200 x 3mm powder coated aluminium sheet raised from façade with face applied vinyl artwork-SAPS emblem, in full colour. Signage artwork in Avery Dennison 800 premium cast film, with UV stabilised ink, colour fast guarantee to be min 5 years, all as per architectural drawing: AR-T-404-02/03 (N3)                                                                                                                                                                                                                                        | No   | 1        |      |        |
|                                    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |        |
| 33                                 | Overall size 800mm x 1200mm high single sided profile Aluminium Maisey Cosign I-Sign display range signage system in a anodised aluminium frame size 25x30 mm section, with and including, code: ID-SS 2000 and ID-SS corner joiners. Signage panel to be 1.2mm thick G4 Colortech pre-painted aluminium sheets with signage artwork in Avery Dennison 800 Premium cast film. Panel fixed with 3M double sided tape for external exposure with stainless steel self tapping screws at max 400mm cc, all as per architectural drawing: AR-T-404-04 (N7) | No   | 1        |      |        |
|                                    | A&B 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |        |
| 34                                 | Overall size 600mm x 840mm high single sided profile Aluminium Maisey Cosign I-Sign display range signage system in a anodised aluminium frame size 25x30 mm section, with and including, code: ID-SS 2000 and ID-SS corner joiners. Signage panel to be 1.2mm thick G4 Colortech pre-painted aluminium sheets with signage artwork in Avery Dennison 800 Premium cast film. Panel fixed with 3M double sided tape for external exposure with stainless steel self tapping screws at max 400mm cc, all as per architectural drawing: AR-T-404-05 (N8)  | No   | 7        |      |        |
|                                    | A&B 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |          |      |        |
| 35                                 | Safety information signage, overall size 210mm x 300mm high single sided profile Aluminium Maisey Cosign Strato Indoor signage system code: ST-210300-W signage artwork in Avery Dennison 700 Premium cast film, all as per architectural drawing: AR-T-404-06 (N13)                                                                                                                                                                                                                                                                                   | No   | 24       |      |        |
|                                    | A&B 20 C 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |          |      |        |
| Carried to Collection              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          | R    |        |
| Bill No. 10<br>Ironmongery         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |          |      | 199    |

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| 36 | Fire Evacuation information signage, overall size 400mm x 600mm high single sided profile Aluminium Maisey Cosign Strato Indoor signage system code: 2x Strato 20A3S + 2x Stralucap 400 signage artwork in Avery Dennison 700 Premium cast film, all as per architectural drawing: AR-T-404-06 (N14) | No   | 2        |      |        |
|    | A&B 2                                                                                                                                                                                                                                                                                                |      |          |      |        |
|    | <b><u>LETTERS, NAMEPLATES, ETC.</u></b>                                                                                                                                                                                                                                                              |      |          |      |        |
|    | <b><u>PURPOSE MADE DOOR MOUNTED SIGNAGE</u></b>                                                                                                                                                                                                                                                      |      |          |      |        |
| 37 | 100 x 25mm Door number with reverse applied vinyl lettering onto 3mm clear perspex with 20mm high font and fixed to door frame, as per architectural drawing AR-T-404-05 (N11)                                                                                                                       | No   | 52       |      |        |
|    | A&B 29 C 2 D 20                                                                                                                                                                                                                                                                                      |      |          |      |        |
|    | E 1                                                                                                                                                                                                                                                                                                  |      |          |      |        |
|    | <b><u>PURPOSE MADE DRAWER NUMBERS</u></b>                                                                                                                                                                                                                                                            |      |          |      |        |
| 38 | 150 x 25mm number with reverse applied vinyl lettering onto 3mm clear perspex with 20mm high font and fixed to timber/steel fitting, as per architectural drawing AR-T-404-05 (N12)                                                                                                                  | No   | 30       |      |        |
|    | A&B 30                                                                                                                                                                                                                                                                                               |      |          |      |        |
|    | <b><u>SUNDRIES</u></b>                                                                                                                                                                                                                                                                               |      |          |      |        |
|    | <b><u>"Dormakaba" or equally approved</u></b>                                                                                                                                                                                                                                                        |      |          |      |        |
| 39 | 38mm Floor mounted door stop. (LI)                                                                                                                                                                                                                                                                   | No   | 57       |      |        |
|    | A&B 25 C 2 D 30                                                                                                                                                                                                                                                                                      |      |          |      |        |
| 40 | 38mm Wall mounted door stop. (LI)                                                                                                                                                                                                                                                                    | No   | 19       |      |        |
|    | A&B 9 D 10                                                                                                                                                                                                                                                                                           |      |          |      |        |
|    | <b><u>"Union" or equally approved</u></b>                                                                                                                                                                                                                                                            |      |          |      |        |
| 41 | "27-664902" F140 Fascia Pack 2000mm (F140/20) with and including endcaps for aluminium tracks. (LI)                                                                                                                                                                                                  | No   | 10       |      |        |
|    | D 10                                                                                                                                                                                                                                                                                                 |      |          |      |        |
|    | <b><u>STEEL LOCKERS</u></b>                                                                                                                                                                                                                                                                          |      |          |      |        |
|    | <b><u>Steel lockers with standard baked enamel finish:</u></b>                                                                                                                                                                                                                                       |      |          |      |        |
| 42 | Locker size 1800mm high x 300mm wide x 450mm deep, all as per drawing number AR-T-627 (Lockers - F14.1), appended elsewhere in this Bid document.                                                                                                                                                    | No   | 11       |      |        |
|    | A&B 11                                                                                                                                                                                                                                                                                               |      |          |      |        |

Carried to Collection

R

200  
RM RT R-11