

**PROVISIONAL BILLS OF QUANTITIES**

**FOR**

**REFURBISHMENTS AND UPGRADES TO LONGDALE TRAIN STATION**

**AT**

**CROESUS, JOHANNESBURG**

**Jul-22**

## **SECTION NO.1 : PRELIMINARIES**

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity | Rate | Amount R |
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| <b><u>SECTION NO. 1</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |          |      |          |
| <b><u>PRELIMINARIES AND GENERAL</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |          |      |          |
| <b><u>BILL NO. 1</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |          |      |          |
| <b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |          |      |          |
| <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause</p> <p>The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents</p> |          |      |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      | R        |
| Section No. 1<br>Preliminaries<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          |      |          |

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**Interpretation (A1-A7)**

- 1 Clause 1.0 - Definitions and interpretation
- 2 Clause 2.0 - **Law**, regulations and **notices**
- 3 Clause 3.0 - Offer and acceptance

F:..... V:.....  
T:.....

- 4 Clause 4.0 - Cession and assignment

F:..... V:.....  
T:.....

- 5 Clause 5.0 - Documents

F:..... V:.....  
T:.....

- 6 Clause 6.0 - **Employer's agents**

F:..... V:.....  
T:.....

- 7 Clause 7.0 - Design responsibility

F:..... V:.....  
T:.....

**Insurances and securities (A8-A11)**

- 8 Clause 8.0 - **Works** risk

F:..... V:.....  
T:.....

**Carried to Collection**

Section No. 1  
Preliminaries  
Contract  
Part C2: Pricing Data

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|                                                                               |                                                                                                                                                                                                                                                                                                                            |      |   |  |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|--|
| 9                                                                             | <p>Clause 9.0 - Indemnities</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                         | Item |   |  |
| 10                                                                            | <p>Clause 10.0 - Insurances</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                         | Item |   |  |
| 11                                                                            | <p>Clause 11.0 - <b>Securities</b></p> <p><b><u>Execution (A12 - A17)</u></b></p>                                                                                                                                                                                                                                          |      |   |  |
| 12                                                                            | <p>Clause 12.0 - Obligations of the <b>parties</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                  | Item |   |  |
| 13                                                                            | <p>Clause 13.0 - Setting out</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                        | Item |   |  |
| 14                                                                            | <p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                    | Item |   |  |
| 15                                                                            | <p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                     | Item |   |  |
| 16                                                                            | <p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Attendance on direct contractors</b></p> <p>In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <p>1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials</p> |      |   |  |
| <p><b>Carried to Collection</b></p>                                           |                                                                                                                                                                                                                                                                                                                            |      | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                                                                                                                                                                            |      |   |  |

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|                                                                               | <p>2. Allow the use of personnel welfare facilities, where provided</p> <p>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</p> <p>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b>, in common with others having the like right, while it remains erected on the <b>site</b> [16.1]</p> <p>F:..... V:.....<br/>T:.....</p> |      |  |  |  |
| 17                                                                            | <p>Clause 17.0 - <b>Contract instructions</b></p> <p><b>Site instructions</b></p> <p>Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b></p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>                                                                                                                                                                                                                                      | Item |  |  |  |
| 18                                                                            | Clause 18.0 - Interim completion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | N/A  |  |  |  |
| 19                                                                            | <p>Clause 19.0 - <b>Practical completion</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Item |  |  |  |
| 20                                                                            | Clause 20.0 - Completion in <b>sections</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |  |  |  |
| 21                                                                            | Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |  |  |  |
| 22                                                                            | <p>Clause 22.0 - <b>Latent defects</b> liability period</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Item |  |  |  |
| <b>Carried to Collection</b>                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |  |  |
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| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |  |  |  |
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| 23                                                                            | <p>Clause 23.0 - Revision of the date for <b>practical completion</b></p> <p><b>Substitution of materials and goods</b></p> <p>The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 &amp; 2]</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                        | Item |   |  |
| 24                                                                            | <p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Payment (A25 - A27)</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Item |   |  |
| 25                                                                            | <p>Clause 25.0 - Payment</p> <p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>F:..... V:.....<br/>T:.....</p> | Item |   |  |
| 26                                                                            | <p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p><b>Fluctuations in costs</b></p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the <b>contractor</b> [26.9.5]</p>                                                                                                                                                                                                                                                                                                                                                        |      |   |  |
| <b>Carried to Collection</b>                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |   |  |

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| 27                                                                            | <p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Suspension and termination (A28 - A29)</u></b></p>                                                                                                                     | Item |   |  |
| 28                                                                            | <p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                             | Item |   |  |
| 29                                                                            | <p>Clause 29.0 - Termination</p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Dispute resolution (A30)</u></b></p>                                                                                                                                                       | Item |   |  |
| 30                                                                            | <p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                              | Item |   |  |
| 31                                                                            | <p><b><u>Agreement</u></b></p> <p>The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b></p> <p>F:..... V:.....<br/>T:.....</p> | Item |   |  |
| 32                                                                            | <p><b><u>Contract data</u></b></p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>SECTION B: GENERAL PRELIMINARIES</u></b></p> <p><b><u>Definitions and interpretation (B1)</u></b></p>                                                                                    | Item |   |  |
| 33                                                                            | <p>Clause 1.1 - Definitions</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                                                      | Item |   |  |
| Carried to Collection                                                         |                                                                                                                                                                                                                                                                         |      | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                                                                                                                         |      |   |  |

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| 34                                                                            | <p>Clause 1.2 - Interpretation</p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Documents (B2)</u></b></p>                                                      | Item |   |  |
| 35                                                                            | <p>Clause 2.1 - Checking of documents</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                   | Item |   |  |
| 36                                                                            | <p>Clause 2.2 - Provisional <b>bills of quantities</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                  | Item |   |  |
| 37                                                                            | <p>Clause 2.3 - Availability of <b>construction information</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                         | Item |   |  |
| 38                                                                            | <p>Clause 2.4 - Ordering of <b>materials and goods</b></p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Previous work and adjoining properties (B3)</u></b></p> | Item |   |  |
| 39                                                                            | <p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F:..... V:.....<br/>T:.....</p>                                                                    | Item |   |  |
| 40                                                                            | <p>Clause 3.2 - Previous work - <b>defects</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                          | Item |   |  |
| 41                                                                            | <p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:.....<br/>T:.....</p>                                                                      | Item |   |  |
| Carried to Collection                                                         |                                                                                                                                                                |      | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                |      |   |  |

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|    | <b><u>The site (B4)</u></b>                                                      |      |   |
| 42 | Clause 4.1 - Handover of <b>site</b> in stages<br>F:..... V:.....<br>T:.....     | Item |   |
| 43 | Clause 4.2 - Enclosure of the <b>works</b>                                       | Item |   |
| 44 | Clause 4.3 - Geotechnical and other investigations<br>F:..... V:.....<br>T:..... | Item |   |
| 45 | Clause 4.4 - Encroachments<br>F:..... V:.....<br>T:.....                         | Item |   |
| 46 | Clause 4.5 - Existing premises occupied<br>F:..... V:.....<br>T:.....            | Item |   |
| 47 | Clause 4.6 - Services - known<br>F:..... V:.....<br>T:.....                      | Item |   |
|    | <b><u>Management of contract (B5)</u></b>                                        |      |   |
| 48 | Clause 5.1 - Management of the <b>works</b><br>F:..... V:.....<br>T:.....        | Item |   |
| 49 | Clause 5.2 - Progress meetings<br>F:..... V:.....<br>T:.....                     | Item |   |
| 50 | Clause 5.3 - Technical meetings<br>F:..... V:.....<br>T:.....                    | Item |   |
|    | <b>Carried to Collection</b>                                                     |      | R |
|    | Section No. 1<br>Preliminaries<br>Contract<br>Part C2: Pricing Data              |      |   |

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| <b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b> |                                                                                            |      |  |   |  |
| 51                                                                        | Clause 6.1 - Samples of materials<br><br>F:..... V:.....<br>T:.....                        | Item |  |   |  |
| 52                                                                        | Clause 6.2 - Workmanship samples<br><br>F:..... V:.....<br>T:.....                         | Item |  |   |  |
| 53                                                                        | Clause 6.3 - Shop drawings<br><br>F:..... V:.....<br>T:.....                               | Item |  |   |  |
| 54                                                                        | Clause 6.4 - Compliance with manufacturer's instructions<br><br>F:..... V:.....<br>T:..... | Item |  |   |  |
| <b><u>Deposits and fees (B7)</u></b>                                      |                                                                                            |      |  |   |  |
| 55                                                                        | Clause 7.1 - Deposits and fees<br><br>F:..... V:..... T:.....                              | Item |  |   |  |
| <b><u>Temporary services (B8)</u></b>                                     |                                                                                            |      |  |   |  |
| 56                                                                        | Clause 8.1 - Water<br><br>F:..... V:.....<br>T:.....                                       | Item |  |   |  |
| 57                                                                        | Clause 8.2 - Electricity<br><br>F:..... V:.....<br>T:.....                                 | Item |  |   |  |
| 58                                                                        | Clause 8.3 - Ablution and welfare facilities<br><br>F:..... V:.....<br>T:.....             | Item |  |   |  |
| <b>Carried to Collection</b>                                              |                                                                                            |      |  | R |  |
| Section No. 1<br>Preliminaries<br>Contract<br>Part C2: Pricing Data       |                                                                                            |      |  |   |  |

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| 59                                                                            | <p>Clause 8.4 - Communication facilities</p> <p>F:..... V:.....<br/>T:.....</p> <p><b><u>Prime cost amounts (B9)</u></b></p>                                                                                                                              | Item |   |  |
| 60                                                                            | <p>Clause 9.1 - Responsibility for <b>prime cost amounts</b></p> <p><b><u>Attendance on subcontractors (B10)</u></b></p>                                                                                                                                  |      |   |  |
| 61                                                                            | <p>Clause 10.1 - General attendance</p> <p><b><u>User note</u></b></p> <p><i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i></p> <p>F:..... V:.....<br/>T:.....</p> | Item |   |  |
| 62                                                                            | Clause 10.2 - Special attendance                                                                                                                                                                                                                          |      |   |  |
| 63                                                                            | <p>Clause 11.1 - Protection of the <b>works</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                    | Item |   |  |
| 64                                                                            | <p>Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                        | Item |   |  |
| 65                                                                            | <p>Clause 11.3 - Security of the <b>works</b></p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                      | Item |   |  |
| 66                                                                            | <p>Clause 11.4 - Notice before covering work</p> <p>F:..... V:.....<br/>T:.....</p>                                                                                                                                                                       | Item |   |  |
| 67                                                                            | Clause 11.5 - Disturbance                                                                                                                                                                                                                                 |      |   |  |
| Carried to Collection                                                         |                                                                                                                                                                                                                                                           |      | R |  |
| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                                                                                                           |      |   |  |

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|                                                                     | Clause 11.6 - Environmental disturbance                                                                                                                                                                                                         |      |   |  |
|                                                                     | Clause 11.7 - <b>Works</b> cleaning and clearing<br>F:..... V:.....<br>T:.....                                                                                                                                                                  | Item |   |  |
|                                                                     | Clause 11.8 - Vermin<br>F:..... V:.....<br>T:.....                                                                                                                                                                                              | Item |   |  |
|                                                                     | Clause 11.9 - Overhand work<br>F:..... V:.....<br>T:.....                                                                                                                                                                                       | Item |   |  |
|                                                                     | Clause 11.10 - Tenant installations<br>F:..... V:.....<br>T:.....                                                                                                                                                                               | Item |   |  |
|                                                                     | Clause 11.11 - Advertising<br>F:..... V:.....<br>T:.....                                                                                                                                                                                        | Item |   |  |
|                                                                     | <b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>                                                                                                                                                                                                 |      |   |  |
|                                                                     | <b>Site instructions</b><br><br><b>Contract Instructions</b> issued on <b>site</b> are to be recorded in triplicate in a <b>site</b> instruction book which is to be maintained on site by the <b>contractor</b><br><br>F:..... V:..... T:..... | Item |   |  |
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|                                                                     | <b>Carried to Collection</b>                                                                                                                                                                                                                    |      | R |  |
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| Section No. 1<br>Preliminaries<br>Contract<br>Part C2: Pricing Data |                                                                                                                                                                                                                                                 |      |   |  |

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| <p>75</p> | <p><b>Warranties for material and workmanship</b></p> <p>Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b>, from the firm supplying the materials and/or doing the work and shall deliver same to the <b>principal agent</b> on the <b>final completion</b> of the <b>contract</b>. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of <b>final completion</b> and that any <b>defects</b> that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by <b>defects</b> in the construction of the building in which case the responsibility for replacement shall rest entirely with the <b>contractor</b></p> <p>F:.....V:.....T:.....</p> | <p>Item</p> |          |  |
| <p>76</p> | <p><b>Co-operation of contractor for cost management</b></p> <p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The <b>principal agent</b> undertakes to make available to the <b>contractor</b> all <b>budgetary allowances</b> and cost assessments/reports to enable the proper procedure to be implemented and the <b>contractor</b> shall attend all cost plan review and cost management meetings. The <b>contractor</b> undertakes to extend these procedures, as necessary, to all subcontractors</p> <p>F:.....V:.....T:.....</p>                                                                                                                                         | <p>Item</p> |          |  |
|           | <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |             | <p>R</p> |  |

77 **Propping of floors below**

The **contractor** is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of **materials and goods** and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the **principal agent** and the cost thereof shall be borne by the **contractor**

F:..... V:..... T:.....

Item

78 **Testing of windows for watertightness**

Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the **principal agent**, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means

F:..... V:..... T:.....

Item

79 **Testing of flat roof waterproofing for watertightness**

Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the **principal agent**, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing

F:..... V:..... T:.....

Item

**Carried to Collection**

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**HIV/AIDS AWARENESS**

It is required of the Contractor to thoroughly study the HIV/AIDS Specification (C3.5) together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained.

The **Contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **Principal Agent**, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clauses to the contrary, reserve the right to delay issuing any progress **payment certificate** until the **Contractor** provides satisfactory proof of compliance. The **Contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

80

**AWARENESS CHAMPION**

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification.

F:..... V:..... T:.....

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81 **AWARENESS WORKSHOPS**

Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multimedia techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification.

F:..... V:..... T:.....

Item

82 **POSTERS, BOOKLETS, VIDEOS, ETC.**

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification.

F:..... V:..... T:.....

Item

83 **ACCESS TO CONDOMS**

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification.

F:..... V:..... T:.....

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|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |  |   |
|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--|--|---|
| 84                                                                            | <p><b>MONITORING</b></p> <p>Monitoring HIV/AIDS awareness of workers, providing the <b>principal agent</b> with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification.</p> <p>F:..... V:..... T:.....</p> <p><b><u>SOCIO-ECONOMIC DELIVERABLES</u></b></p>                                             |      |  |  |   |
| 85                                                                            | <p>It is required that the contractor shall adhere to all Socio-Economic Deliverables</p> <p>Provision for pricing of all the main contractor's costs as stipulated in the deliverables is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>F:..... V:..... T:.....</p> <p><b><u>EMPLOYMENT OF SMME SUB-CONTRACTORS AS A CONDITION OF TENDER</u></b></p>                                                 | Item |  |  |   |
| 86                                                                            | <p>It is required that the contractor shall sub-contract 30% of the contract value (Excluding VAT, Escalation, Contingencies, HT equipment provisions and Socio-Economic provisions) of the contract including labour and material to EME's and QSE's</p> <p>Provision for pricing of all the main contractor's costs is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained</p> <p>F:..... V:..... T:.....N/A</p> | Item |  |  |   |
| <b>Carried to Collection</b>                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |  |   |
| <p>Section No. 1<br/>Preliminaries<br/>Contract<br/>Part C2: Pricing Data</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |  |  | R |

**OCCUPATIONAL HEALTH AND SAFETY ACT**

87 The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act no.85 Of 1993)

It is required of the contractor to thoroughly study the Health and Safety Specification

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

F:..... V:..... T:.....

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**ENVIRONMENTAL HEALTH AND SAFETY**

88 The contractor shall comply with all the requirements set out in the Environmental Health and Safety Specification

It is required of the contractor to thoroughly study the Environmental Health and Safety Specification

The contractor must take note that compliance with the Environmental Health and Safety is compulsory.

Provision for pricing of the Environmental Health and Safety is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.

F:..... V:..... T:.....

Item

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**SUMMARY OF CATEGORIES**

Category: Fixed R

Category: Value R

Category: Time R

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## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

|                                     |                    |                     |  |
|-------------------------------------|--------------------|---------------------|--|
| Section No. 1                       |                    |                     |  |
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| Bill No. 1                          |                    |                     |  |
| Preliminaries                       |                    |                     |  |
| <b><u>COLLECTION PAGE</u></b>       |                    |                     |  |
|                                     | <b>Page<br/>No</b> | <b>Amount<br/>R</b> |  |
| Total Brought Forward from Page No. | 1                  |                     |  |
| Total Brought Forward from Page No. | 2                  |                     |  |
| Total Brought Forward from Page No. | 3                  |                     |  |
| Total Brought Forward from Page No. | 4                  |                     |  |
| Total Brought Forward from Page No. | 5                  |                     |  |
| Total Brought Forward from Page No. | 6                  |                     |  |
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|                                     |                    |                     |  |
| <b>Carried to Final Summary</b>     |                    | R                   |  |
| Section No. 1                       |                    |                     |  |
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## **SECTION NO.2 : BUILDING WORK**

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Quantity | Rate | Amount R |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions and preambles in other bills</u></b></p> <p>Reference shall be made to other trades and preambles for preambles and full descriptions of items not fully described in this trade which shall apply equally to the work in this trade, unless otherwise described.</p> <p><b><u>General</u></b></p> <p>The Tenderer is advised to visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for a compensation event in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p>The attention of tenderers is drawn to the fact that unless otherwise stated loose furniture, kitchen equipment, apparatus, machinery, etc. is to remain the property of the Chief Director and does not fall within the scope of this contract.</p> |          |      |          |
| <p><b>Carried to Collection</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |          |      | R        |
| <p>Section No. 2<br/>Alterations<br/>Contract<br/>Part C2: Pricing Data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |          |      |          |

Tenderers are advised that parts of the existing buildings on the site, including the existing water supply and sanitary systems will be in use during the progress of the Works and any disconnections, etc. that may be necessary must be made as directed by the Project Manager and in such a manner as to cause the minimum of inconvenience to the manner as to cause the minimum of inconvenience to the occupants of the buildings

**Notices**

Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Project Manager if any disconnection or alterations become necessary

**Demolitions**

All demolitions work shall be carried out in accordance with the Local By-laws and to the requirements of the Local Health Authorities. The Contractor shall take all precautions necessary to prevent any nuisance from dust whilst carrying out the work, including watering of the works with a jet or spray

**Old materials to become the property of the Contractor**

Old materials from alterations, except where described to be re-used or handed over to the Project Manager, become the property of the Contractor

Old materials from the alterations, except where described to be re-used or handed over to the Project Manager, as well as all rubbish, etc., must be regularly carted from site and not be allowed to accumulate on or around the site.

**Old materials not to be re-used**

None of the old materials is to be used for new work except where specifically described as being set aside for re-use

**Carried to Collection**

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**Handing over of materials**

Where certain materials or articles from demolitions or alterations are described as to be handed over by the Contractor to the Project Manager such materials or articles shall be properly stored by the Contractor, until handing over thereof.

The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be liable to the Chief Director for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor

**Protection**

In taking down and removing existing work the utmost care is to be observed to avoid any structural or other damage to the remaining portions of the building and the work is to be carried out in a workmanlike, practical and safe manner under the constant supervision of a competent foreman

The contractor must also protect all work not removed such as walls, floors, doors, windows, or other joinery, loose and fixed fittings and electrical appliances, etc. from damage during the progress of the work and provide all necessary materials for doing so

The Contractor will be held solely responsible for any damage to persons or property and for the safety of the structure throughout the whole of this contract and must make good at his own expense any damage that may occur. He shall allow for protecting and indemnifying persons using or passing through the existing buildings from injury and by necessary barriers, signs, etc

**Making good damaged work**

The Contractor shall make good in all trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match the existing. The works shall be left complete and perfect in every respect

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**Pulling down**

Pulling down walls shall include for dead shoring under existing concrete slabs, beams, roof members, etc., for pulling down face brick, tiled or plastered walls and concrete beams or lintels occurring in same, for removing skirtings, quadrants, cornices, etc, fixed to same for hacking up flooring in openings and making good as previously described to walls, floors, ceilings, etc, unless otherwise described

**Junction of new and existing**

Making good at the junction of new and existing work shall include for piercing out, cutting through or removing short lengths of existing material, for supplying short lengths of new material and for jointing to match existing

**Existing and adjoining buildings, etc.**

In taking down and removing existing work the utmost care must be observed to avoid any structural or other damage to the remaining portions of the building or adjoining buildings, boundary walls, pavings, roadways, etc, and the Contractor shall provide all shoring, needling, strutting, etc, to ensure the stability of all structures during demolition or alteration work. The Contractor must cover up and protect from damage all work not removed and must make good at his own expense any damage that may occur

**Forming new openings or altering openings in existing walls**

Descriptions for forming new openings or altering openings in existing walls shall be deemed to include breaking out for and forming new brick, in-situ concrete or pre-stressed concrete lintels including all reinforcement, formwork, turning pieces, etc, building up jambs or portions of openings as described with brickwork or blockwork properly toothed and bonded to existing, building cavities or hollow walls solid where necessary and making good finishes all round on both sides and into reveals as described

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**Building up openings**

Descriptions of building up existing openings, where given in number, shall be deemed to include preparing existing surfaces all round, brickwork or blockwork, properly toothed and bonded to existing, wedging up and making good finishes on both sides as described

**Site works**

Hacking up gravel, concrete, bituminous or other paving shall include for grubbing up the sub-base and brick or concrete kerb

Pulling down boundary, retaining walls, fencing, etc, shall include for grubbing up all bricks, concrete and reinforced concrete foundations, bases, etc

All voids in ground consequent upon the pulling or cutting down are to be filled in with clean earth, well consolidated and rammed up to finished ground level

**Plant and Scaffolding**

The Contractor shall provide, maintain and remove from site if no longer required, all plant and scaffolding for the proper execution of the works

**Dimensions**

The Contractor is advised to take all dimensions affecting the existing buildings on the site, as he will be held solely responsible for all new work being of the correct sizes

**Removal of ceilings**

The Contractor is to ensure compliance with all relevant by-laws and legislation in terms of taking down, temporary storing on site, loading and final removal from site of ceilings with asbestos cement content

**NOTE:**

All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned

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All new finishes are measured in the relevant trades for new work

**REMOVAL OF EXISTING WORK**

**Breaking down and removing brickwork etc**

|   |                 |    |    |
|---|-----------------|----|----|
| 1 | Half brick wall | m² | 5  |
| 2 | One brick wall  | m² | 13 |

**Taking up and removing pavers, etc**

|   |                                                 |    |   |
|---|-------------------------------------------------|----|---|
| 3 | Concrete pavers laid loose on compacted subbase | m² | 3 |
|---|-------------------------------------------------|----|---|

**Taking out and removing doors, windows, etc from brickwork to be demolished**

|   |                                                  |    |   |
|---|--------------------------------------------------|----|---|
| 4 | Timber single door and frame not exceeding 2,5m2 | No | 2 |
|---|--------------------------------------------------|----|---|

**Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)**

|   |                                                  |    |   |
|---|--------------------------------------------------|----|---|
| 5 | Timber single door and frame not exceeding 2,5m2 | No | 2 |
| 6 | Steel window approximate size 1200 x 1000mm high | No | 1 |
| 7 | Steel window approximate size 500 x 1000mm high  | No | 4 |
| 8 | Steel window approximate size 450 x 1000mm high  | No | 2 |

**Take off and remove doors from existing frames including preparing frame to receive new door leaves (elsewhere measured)**

|   |                                        |    |   |
|---|----------------------------------------|----|---|
| 9 | Timber single door not exceeding 2,5m2 | No | 5 |
|---|----------------------------------------|----|---|

**Taking down and removing roofs, floors, panelling, ceilings, partitions, etc**

|    |                                                                                                            |    |     |
|----|------------------------------------------------------------------------------------------------------------|----|-----|
| 10 | Corrugated iron roof covering and timber purlins, inspect and repair roof trusses to receive new covering. | m² | 597 |
|----|------------------------------------------------------------------------------------------------------------|----|-----|

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## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

|                                                                   |                                                                                                                                                              |                |    |           |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|-----------|
| 11                                                                | Gypsum plasterboard ceilings including cornices, timber bandering, etc                                                                                       | m <sup>2</sup> | 89 |           |
| 12                                                                | Gutters and downpipes complete with fittings                                                                                                                 | m              | 80 |           |
| 13                                                                | Fibre cement fascia and badge boards                                                                                                                         | m              | 48 |           |
|                                                                   | <b><u>Taking out and removing sundry joinery work</u></b>                                                                                                    |                |    |           |
| 14                                                                | Timber skirtings from brickwork                                                                                                                              | m              | 26 |           |
|                                                                   | <b><u>Taking out and removing joinery fittings etc</u></b>                                                                                                   |                |    |           |
| 15                                                                | Timber kitchen sink cupboard approximately 2878 x 600 x 890mm high                                                                                           | No             | 1  |           |
|                                                                   | <b><u>Taking up and removing vinyl floor coverings, carpeting, etc</u></b>                                                                                   |                |    |           |
| 16                                                                | Carpet floor covering including preparing screed for new floor covering                                                                                      | m <sup>2</sup> | 16 |           |
|                                                                   | <b><u>Take off and remove existing ironmongery from doors, including making good and prepare to receive new ironmongery (elsewhere measured)</u></b>         |                |    |           |
| 17                                                                | Mortice lockset complete with handles from timber door                                                                                                       | No             | 6  |           |
| 18                                                                | Door closer from timber door                                                                                                                                 | No             |    | Rate Only |
|                                                                   | <b><u>Taking out and removing ironmongery</u></b>                                                                                                            |                |    |           |
| 19                                                                | Stainless steel toilet roll holder                                                                                                                           | No             | 7  |           |
| 20                                                                | Paper towel dispenser                                                                                                                                        | No             | 6  |           |
| 21                                                                | Liquid dispenser                                                                                                                                             | No             | 6  |           |
|                                                                   | <b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u></b> |                |    |           |
| 22                                                                | 30mm Thick screed from floors                                                                                                                                | m <sup>2</sup> |    | Rate only |
| <b>Carried to Collection</b>                                      |                                                                                                                                                              |                |    |           |
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**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

|                                                                   |                                                                                                                                                                                                           |                |     |   |  |
|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|---|--|
|                                                                   | <b><u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u></b> |                |     |   |  |
| 23                                                                | Tiles to floors                                                                                                                                                                                           | m <sup>2</sup> | 104 |   |  |
| 24                                                                | Tiles to walls                                                                                                                                                                                            | m <sup>2</sup> | 153 |   |  |
| 25                                                                | Tile skirting                                                                                                                                                                                             | m              | 167 |   |  |
|                                                                   | <b><u>Carefully take out existing sanitary fittings and hand over to Client, or store in demarcated area on site, as directed by the Project Manager</u></b>                                              |                |     |   |  |
| 26                                                                | Stainless steel single bowl sink                                                                                                                                                                          | No             | 1   |   |  |
| 27                                                                | Vitreous china wash hand basin                                                                                                                                                                            | No             | 6   |   |  |
| 28                                                                | Vitreous china WC pan with cistern                                                                                                                                                                        | No             | 7   |   |  |
| 29                                                                | Floor drain                                                                                                                                                                                               | No             | 2   |   |  |
|                                                                   | <b><u>Taking out and removing glass and mirrors</u></b>                                                                                                                                                   |                |     |   |  |
| 30                                                                | Glass from steel windows including cleaning out rebates and preparing for new glass (LI)                                                                                                                  | m <sup>2</sup> | 4   |   |  |
| 31                                                                | Mirror size 600 x 900mm high from wall                                                                                                                                                                    | No             | 8   |   |  |
|                                                                   | <b><u>Taking out and removing street furniture:</u></b>                                                                                                                                                   |                |     |   |  |
| 32                                                                | Steel seats                                                                                                                                                                                               | No             | 14  |   |  |
| 33                                                                | Steel bins                                                                                                                                                                                                | No             | 10  |   |  |
|                                                                   | <b><u>BUILDING UP OPENINGS</u></b>                                                                                                                                                                        |                |     |   |  |
|                                                                   | <b><u>Brickwork in NFP bricks in class II mortar in building up openings</u></b>                                                                                                                          |                |     |   |  |
| 34                                                                | One brick walls                                                                                                                                                                                           | m <sup>2</sup> | 10  |   |  |
| <b>Carried to Collection</b>                                      |                                                                                                                                                                                                           |                |     | R |  |
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**FACE BRICKWORK**

**External facings in approved face bricks (FBX)  
pointed with flush horizontal and vertical joints**

|    |                                         |                |   |  |
|----|-----------------------------------------|----------------|---|--|
| 35 | Extra over brickwork for face brickwork | m <sup>2</sup> | 8 |  |
|----|-----------------------------------------|----------------|---|--|

**Sundries**

|    |                                                         |                |   |  |
|----|---------------------------------------------------------|----------------|---|--|
| 36 | Cutting toothings and bonding new brickwork to existing | m <sup>2</sup> | 6 |  |
|----|---------------------------------------------------------|----------------|---|--|

**PREPARATORY WORK TO EXISTING SURFACES**

|    |                                                                                      |                |  |           |
|----|--------------------------------------------------------------------------------------|----------------|--|-----------|
| 37 | Making good defects in existing screeded floors with an approved cementious compound | m <sup>2</sup> |  | Rate Only |
|----|--------------------------------------------------------------------------------------|----------------|--|-----------|

**MAKING GOOD OF FINISHES ETC**

|    |                                                  |   |   |  |
|----|--------------------------------------------------|---|---|--|
| 38 | Making good brickwork at end of 230mm brick wall | m | 3 |  |
|----|--------------------------------------------------|---|---|--|

|    |                                                                                |   |   |  |
|----|--------------------------------------------------------------------------------|---|---|--|
| 39 | Making good brickwork to face of wall where 230mm brick cross wall was removed | m | 3 |  |
|----|--------------------------------------------------------------------------------|---|---|--|

**REPAIRING PLASTER**

**General Notes**

All plaster repair admixtures are to be applied strictly in accordance with the manufacturer's requirements. Break out all loose and hollow plaster at least 200mm wide all around loose plaster area, brush clean of all loose material, treat exposed area with adhesive slurry and plaster with an admixture of 3:1 sand/cement and 3:1 water/adhesive slurry

All work is deemed to be in patches

**Prepare and apply 3:1 plaster admixture as described**

|    |                |                |   |           |
|----|----------------|----------------|---|-----------|
| 40 | On brick walls | m <sup>2</sup> | 1 | Rate Only |
|----|----------------|----------------|---|-----------|

|    |                  |                |   |           |
|----|------------------|----------------|---|-----------|
| 41 | On narrow widths | m <sup>2</sup> | 1 | Rate Only |
|----|------------------|----------------|---|-----------|

**CONCRETE CRACK REPAIRS**

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**General Notes**

Cracks are to be repaired by epoxy pressure grouting. Drill holes 20mm deep at approximately 200mm centres on crack line. Secure grease nipple in hole at lowest point using epoxy grout. Secure PVC tubes in other holes using epoxy grout. The crack at the face of the concrete is then to be sealed using epoxy grout. The PVC tubes are then to be temporarily closed, except for the one closest to the grease nipple. Epoxy grout is then to be pumped into the grease nipple. Once epoxy runs out of the first PVC tube, the tube is to be sealed and the second tube opened. "This process is to continue until the epoxy runs out of the last tube

**Preparation of surfaces**

Surfaces shall be dry and clean, free of dust, sand, grit and flaking particles, rust, scale, marine growths, laitance and loose matter, contaminants such as oil, grease, etc. Cracks to be cleaned and widened by hand or mechanical means. Where applicable, surfaces shall not have a moisture content exceeding 4%. The cleaning of surfaces to be done by means of high speed pneumatic rotary wire brush. Oil, grease, animal fats, etc to be removed with suitable product to be applied in strict accordance with the manufacturer's instructions. Once clean, surfaces to be profiled mechanically (Vacublasting, scarifying or grinding) by means of acid etching (one part concrete etchant thinned with two parts water applied at the rate of 2m<sup>2</sup>/1 litre in strict accordance with the manufacturer's instructions)

**Prepare cracked concrete surfaces as described and apply two component epoxy putty**

|    |                     |                |    |           |
|----|---------------------|----------------|----|-----------|
| 42 | On soffits of slabs | m <sup>2</sup> | 89 | Rate Only |
|----|---------------------|----------------|----|-----------|

**ANTI-CORROSION PROTECTION TO CONCRETE REPAIRS**

**Prepare and apply one coat primer (0,4 litres per m2) and two coats aliphatic acrylic waterproof coating (0,35 litres per m2)**

|    |                    |   |    |  |
|----|--------------------|---|----|--|
| 43 | On edges of stairs | m | 89 |  |
|----|--------------------|---|----|--|

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## **CLEANING OF WALLS**

### **Cleaning of surfaces**

|    |                 |                |     |  |  |
|----|-----------------|----------------|-----|--|--|
| 44 | Facebrick walls | m <sup>2</sup> | 354 |  |  |
|----|-----------------|----------------|-----|--|--|

## **OPENINGS THROUGH EXISTING WALLS ETC**

**Breaking out for and forming openings through brick walls for new window including necessary precast concrete lintels and making good plaster on one side and into reveals with steel trowelled finish (new window and making good paintwork elsewhere)**

|    |                                                                                      |    |   |  |  |
|----|--------------------------------------------------------------------------------------|----|---|--|--|
| 45 | Opening for transaction window size 600 x 1100mm high overall through one brick wall | No | 3 |  |  |
|----|--------------------------------------------------------------------------------------|----|---|--|--|

## **SEALING OF EXISTING ROOF SHEETING**

**Inspect, clean and seal existing corrugated metal roof sheeting by tightening all existing screws and replacing missing or damaged screws with new, seal all screw heads and laps with an approved sealant to ensure a leak free roof, all to the approval of the Project Manager. (Re-painting elsewhere measured)**

|    |                                            |                |  |  |           |
|----|--------------------------------------------|----------------|--|--|-----------|
| 46 | Roof with a pitch not exceeding 25 degrees | m <sup>2</sup> |  |  | Rate Only |
|----|--------------------------------------------|----------------|--|--|-----------|

## **SERVICE AND REPAIR**

### **Inspect and service**

|    |                                                              |    |   |  |  |
|----|--------------------------------------------------------------|----|---|--|--|
| 47 | Roller shutter door 2200 x 2400mm high including ironmongery | No | 4 |  |  |
|----|--------------------------------------------------------------|----|---|--|--|

Carried to Collection

R

Section No. 2  
Alterations  
Contract  
Part C2: Pricing Data

[illegible]

| Item No                                                                                                                                                                                                                                                                                                                                                      | Quantity | Rate | Amount R |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                                                                                                  |          |      |          |
| <b><u>BILL NO. 2</u></b>                                                                                                                                                                                                                                                                                                                                     |          |      |          |
| <b><u>EARTHWORKS</u></b>                                                                                                                                                                                                                                                                                                                                     |          |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                                      |          |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                                                                                                         |          |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                        |          |      |          |
| <b><u>Nature of ground</u></b>                                                                                                                                                                                                                                                                                                                               |          |      |          |
| The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock".                                                                                                                                                                                                                |          |      |          |
| The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock".                                                                                                                                                                                                                                             |          |      |          |
| The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock".                                                                                                                                                            |          |      |          |
| Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm.                                                                                      |          |      |          |
| A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured |          |      |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                 |          |      | R        |
| Section No. 2<br>Earthworks<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                                                             |          |      |          |

**Carting away of excavated material**

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site

**Filling**

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material

**Testing**

*Prices for filling are to include for all necessary density tests in accordance with SANS 1200D*

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**Carried to Collection**

**R**

Section No. 2  
 Earthworks  
 Contract  
 Part C2: Pricing Data

|                                                                   |                                                                                                                    |                |      |   |  |
|-------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------------|------|---|--|
| <b><u>SITE CLEARANCE ETC</u></b>                                  |                                                                                                                    |                |      |   |  |
| <b><u>Site clearance</u></b>                                      |                                                                                                                    |                |      |   |  |
| 48                                                                | Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site          | m <sup>2</sup> | 13   |   |  |
| 49                                                                | Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc | m <sup>2</sup> | 13   |   |  |
| <b><u>EXCAVATIONS</u></b>                                         |                                                                                                                    |                |      |   |  |
| <b><u>Excavation in earth not exceeding 2m deep</u></b>           |                                                                                                                    |                |      |   |  |
| 50                                                                | Reduced levels under floors.                                                                                       | m <sup>3</sup> | 2    |   |  |
| 51                                                                | Trenches                                                                                                           | m <sup>3</sup> | 24   |   |  |
| <b><u>EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER</u></b> |                                                                                                                    |                |      |   |  |
| <b><u>Extra over excavation in earth for excavation in</u></b>    |                                                                                                                    |                |      |   |  |
| 52                                                                | Soft rock                                                                                                          | m <sup>3</sup> | 2    |   |  |
| 53                                                                | Hard rock                                                                                                          | m <sup>3</sup> | 1    |   |  |
| <b><u>Extra over all excavations for carting away</u></b>         |                                                                                                                    |                |      |   |  |
| 54                                                                | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor     | m <sup>3</sup> | 20   |   |  |
| <b><u>Risk of collapse of excavations</u></b>                     |                                                                                                                    |                |      |   |  |
| 55                                                                | Sides of trench and hole excavations not exceeding 1,5m deep                                                       | m <sup>2</sup> | 69   |   |  |
| <b><u>Keeping excavations free of water</u></b>                   |                                                                                                                    |                |      |   |  |
| 56                                                                | Keeping excavations free of all water other than subterranean water                                                |                | Item |   |  |
| <b>Carried to Collection</b>                                      |                                                                                                                    |                |      | R |  |
| Section No. 2                                                     |                                                                                                                    |                |      |   |  |
| Earthworks                                                        |                                                                                                                    |                |      |   |  |
| Contract                                                          |                                                                                                                    |                |      |   |  |
| Part C2: Pricing Data                                             |                                                                                                                    |                |      |   |  |

|                                                                                                                                     |                                                                                                                                                                                                                                |                |    |   |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|---|--|
| <b><u>FILLING ETC</u></b>                                                                                                           |                                                                                                                                                                                                                                |                |    |   |  |
| <b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b> |                                                                                                                                                                                                                                |                |    |   |  |
| 57                                                                                                                                  | Backfilling to trenches, holes, etc                                                                                                                                                                                            | m <sup>3</sup> | 12 |   |  |
| <b><u>Earth filling supplied by the contractor, compacted to 95% Mod AASHTO density</u></b>                                         |                                                                                                                                                                                                                                |                |    |   |  |
| 58                                                                                                                                  | Under floors                                                                                                                                                                                                                   | m <sup>3</sup> | 2  |   |  |
| <b><u>Compaction of surfaces</u></b>                                                                                                |                                                                                                                                                                                                                                |                |    |   |  |
| 59                                                                                                                                  | Compaction of ground surface under strip footings and bases, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density | m <sup>2</sup> | 24 |   |  |
| 60                                                                                                                                  | Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density                    | m <sup>2</sup> | 13 |   |  |
| <b><u>SOIL POISONING</u></b>                                                                                                        |                                                                                                                                                                                                                                |                |    |   |  |
| <b><u>Soil insecticide in accordance with SANS 5859</u></b>                                                                         |                                                                                                                                                                                                                                |                |    |   |  |
| 61                                                                                                                                  | Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming                                                                                                 | m <sup>2</sup> | 13 |   |  |
| 62                                                                                                                                  | To bottoms of trenches etc                                                                                                                                                                                                     | m <sup>2</sup> | 24 |   |  |
| <b><u>Prescribed density tests on filling</u></b>                                                                                   |                                                                                                                                                                                                                                |                |    |   |  |
| 63                                                                                                                                  | Modified AASHTO Density test                                                                                                                                                                                                   | No             | 3  |   |  |
| 64                                                                                                                                  | Field Density test, including "Optimum Moisture Content" (four readings per test)                                                                                                                                              | No             | 2  |   |  |
| <b>Carried to Collection</b>                                                                                                        |                                                                                                                                                                                                                                |                |    | R |  |
| Section No. 2                                                                                                                       |                                                                                                                                                                                                                                |                |    |   |  |
| Earthworks                                                                                                                          |                                                                                                                                                                                                                                |                |    |   |  |
| Contract                                                                                                                            |                                                                                                                                                                                                                                |                |    |   |  |
| Part C2: Pricing Data                                                                                                               |                                                                                                                                                                                                                                |                |    |   |  |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

Section No. 2

Bill of Quantities

Bill No. 2

Earthworks

**COLLECTION PAGE**

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Section No. 2

Earthworks

Contract

Part C2: Pricing Data

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Quantity | Rate | Amount R |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>CONCRETE, FORMWORKAND REINFORCEMENT</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately)</p> <p>Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.</p> |          |      |          |
| <p align="right"><b>Carried to Collection</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |          |      | R        |
| <p>Section No. 2<br/>Concrete, Formwork and Reinforcement<br/>Contract<br/>Part C2: Pricing Data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |      |          |

Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design purposes. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

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**Carried to Collection**

Section No. 2  
 Concrete, Formwork and Reinforcement  
 Contract  
 Part C2: Pricing Data

R

|                                                                                                                                        |                                                                   |                |    |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------|----|
| <b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>                                                                      |                                                                   |                |    |
| <b><u>25MPa/19mm concrete</u></b>                                                                                                      |                                                                   |                |    |
| 65                                                                                                                                     | Strip footings                                                    | m <sup>3</sup> | 6  |
| <b><u>REINFORCED CONCRETE</u></b>                                                                                                      |                                                                   |                |    |
| <b><u>25MPa/19mm concrete</u></b>                                                                                                      |                                                                   |                |    |
| 66                                                                                                                                     | Surface beds on waterproofing including thickenings               | m <sup>3</sup> | 1  |
| <b><u>TEST CUBES</u></b>                                                                                                               |                                                                   |                |    |
| 67                                                                                                                                     | Making and testing 150 x 150 x 150mm concrete strength test cubes | No             | 1  |
| <b><u>CONCRETE SUNDRIES</u></b>                                                                                                        |                                                                   |                |    |
| <b><u>Finishing top surfaces of concrete smooth with a steel trowel</u></b>                                                            |                                                                   |                |    |
| 68                                                                                                                                     | Top of surface beds                                               | m <sup>2</sup> | 13 |
| <b><u>MOVEMENT JOINTS ETC</u></b>                                                                                                      |                                                                   |                |    |
| <b><u>Isolation joints with 10mm filler between vertical concrete surfaces or between vertical concrete and brickwork surfaces</u></b> |                                                                   |                |    |
| 69                                                                                                                                     | 10mm joints not exceeding 300mm high                              | m              | 34 |
| <b><u>REINFORCEMENT</u></b>                                                                                                            |                                                                   |                |    |
| <b><u>Fabric reinforcement</u></b>                                                                                                     |                                                                   |                |    |
| 70                                                                                                                                     | Type 193 fabric reinforcement in concrete surface beds            | m <sup>2</sup> | 13 |
| <b>Carried to Collection</b>                                                                                                           |                                                                   |                | R  |
| Section No. 2<br>Concrete, Formwork and Reinforcement<br>Contract<br>Part C2: Pricing Data                                             |                                                                   |                |    |

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| Item No                                                                                                                                                              | Quantity | Rate | Amount R |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                          |          |      |          |
| <b><u>BILL NO. 4</u></b>                                                                                                                                             |          |      |          |
| <b><u>MASONRY</u></b>                                                                                                                                                |          |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                              |          |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities |          |      |          |
| <b><u>CPAP ADJUSTMENT</u></b>                                                                                                                                        |          |      |          |
| Unless otherwise stated all the following items shall be deemed to fall into Work Group 116 for Contract Price Adjustment Provisions                                 |          |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                |          |      |          |
| <b><u>BRICKWORK</u></b>                                                                                                                                              |          |      |          |
| <b><u>Sizes in descriptions</u></b>                                                                                                                                  |          |      |          |
| Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick                                   |          |      |          |
| <b><u>Hollow walls</u></b>                                                                                                                                           |          |      |          |
| Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole                    |          |      |          |
| <b><u>Face bricks</u></b>                                                                                                                                            |          |      |          |
| Bricks shall be ordered timeously to obtain uniformity in size and colour                                                                                            |          |      |          |
| <b><u>Pointing</u></b>                                                                                                                                               |          |      |          |
| Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc     |          |      |          |
| <b>Carried to Collection</b>                                                                                                                                         |          |      | R        |
| Section No. 2<br>Masonry<br>Contract<br>Part C2: Pricing Data                                                                                                        |          |      |          |

**BRICKWORK**

**FOUNDATIONS**

**Brickwork of NFX bricks in class 1 mortar**

|    |                  |                |    |
|----|------------------|----------------|----|
| 71 | Half brick walls | m <sup>2</sup> | 5  |
| 72 | One brick walls  | m <sup>2</sup> | 27 |

**SUPERSTRUCTURE**

**Brickwork of NFP bricks in class 1 mortar**

|    |                                  |                |    |
|----|----------------------------------|----------------|----|
| 73 | Half brick walls                 | m <sup>2</sup> | 14 |
| 74 | Half brick walls in beam filling | m <sup>2</sup> | 8  |
| 75 | One brick walls                  | m <sup>2</sup> | 67 |

**BRICKWORK SUNDRIES**

**Brickwork reinforcement**

|    |                                                |   |     |
|----|------------------------------------------------|---|-----|
| 76 | 75mm Wide reinforcement built in horizontally  | m | 33  |
| 77 | 150mm Wide reinforcement built in horizontally | m | 368 |

**Prestressed fabricated lintels**

|    |                                                |   |    |
|----|------------------------------------------------|---|----|
| 78 | 110 x 75mm Lintels in lengths not exceeding 3m | m | 29 |
|----|------------------------------------------------|---|----|

**Galvanised hoop iron cramps, ties, etc**

|    |                                                                                                                                       |    |    |
|----|---------------------------------------------------------------------------------------------------------------------------------------|----|----|
| 79 | 30 x 1,2mm Wall tie 500mm long with one end shot pinned to concrete and other end bent to form a right angle and built into brickwork | No | 12 |
|----|---------------------------------------------------------------------------------------------------------------------------------------|----|----|

**Air vent etc**

|    |                                      |    |   |
|----|--------------------------------------|----|---|
| 80 | 600 x 990mm breeze block or air vent | No | 3 |
|----|--------------------------------------|----|---|

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Part C2: Pricing Data

|                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |                |     |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------|-----|---|--|
| <b><u>FACE BRICKWORK</u></b>                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                |     |   |  |
| <b><u>External facings in approved face bricks pointed with flush horizontal and vertical joints</u></b>                                                                                                                                                                                                                                                                              |                                                                                       |                |     |   |  |
| 81                                                                                                                                                                                                                                                                                                                                                                                    | Extra over brickwork for face brickwork                                               | m <sup>2</sup> | 170 |   |  |
| 82                                                                                                                                                                                                                                                                                                                                                                                    | Extra over brickwork for face brickwork in foundations                                | m <sup>2</sup> | 63  |   |  |
| <b><u>Brick-on-edge header course copings, sills, etc of approved face bricks (FBX) pointed with flush horizontal and vertical joints on all exposed faces</u></b>                                                                                                                                                                                                                    |                                                                                       |                |     |   |  |
| 83                                                                                                                                                                                                                                                                                                                                                                                    | 150mm Wide sill set sloping and slightly projecting                                   | m              | 8   |   |  |
| <b><u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u></b>                                                                                                                                                                                                                                                                                                                                  |                                                                                       |                |     |   |  |
| <b><u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u></b>                                                                                                                                                                                                                                                                           |                                                                                       |                |     |   |  |
| 84                                                                                                                                                                                                                                                                                                                                                                                    | 15 x 175mm Wide sills set flat and slightly projecting                                | m              | 8   |   |  |
| <b><u>GRANITE COUNTER TOPS AND VANITY SLABS</u></b>                                                                                                                                                                                                                                                                                                                                   |                                                                                       |                |     |   |  |
| <b><u>KITCHEN COUNTERS</u></b>                                                                                                                                                                                                                                                                                                                                                        |                                                                                       |                |     |   |  |
| <b><u>30mm thick polished granite counters with all exposed edges large bevel edged, fixed to supports (elsewhere specified) using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.</u></b> |                                                                                       |                |     |   |  |
| 85                                                                                                                                                                                                                                                                                                                                                                                    | Kitchen counter 2878 long x 600mm wide including forming opening for single bowl sink | No             | 1   |   |  |
| 86                                                                                                                                                                                                                                                                                                                                                                                    | Kitchen counter 1860 long x 600mm wide including forming opening for single bowl sink | No             | 1   |   |  |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |                |     | R |  |
| Section No. 2<br>Masonry<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                                                                                         |                                                                                       |                |     |   |  |

Section No. 2

Bill of Quantities

Bill No. 4

Masonry

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Masonry

Contract

Part C2: Pricing Data

| Item No                                                                                                                                                                                                                                                                                                                           |                           | Quantity       | Rate | Amount R |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                                                                       |                           |                |      |          |
| <b><u>BILL NO. 5</u></b>                                                                                                                                                                                                                                                                                                          |                           |                |      |          |
| <b><u>WATERPROOFING</u></b>                                                                                                                                                                                                                                                                                                       |                           |                |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                           |                           |                |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                                                                              |                           |                |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                                             |                           |                |      |          |
| Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs |                           |                |      |          |
| -----                                                                                                                                                                                                                                                                                                                             |                           |                |      |          |
| <b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>                                                                                                                                                                                                                                                                                    |                           |                |      |          |
| <b><u>One layer of 375 micron embossed damp proof course</u></b>                                                                                                                                                                                                                                                                  |                           |                |      |          |
| 87                                                                                                                                                                                                                                                                                                                                | In walls                  | m <sup>2</sup> | 7    |          |
| <b><u>One layer of 250 micron waterproof sheeting sealed at laps with pressure sensitive tape</u></b>                                                                                                                                                                                                                             |                           |                |      |          |
| 88                                                                                                                                                                                                                                                                                                                                | Under surface beds        | m <sup>2</sup> | 13   |          |
| <b><u>PROTECTIVE ROOFING PAINT</u></b>                                                                                                                                                                                                                                                                                            |                           |                |      |          |
| <b><u>Two coats bituminous aluminium paint</u></b>                                                                                                                                                                                                                                                                                |                           |                |      |          |
| 89                                                                                                                                                                                                                                                                                                                                | On waterproofing to roofs | m <sup>2</sup> | 50   |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                      |                           |                |      | R        |
| Section No. 2<br>Waterproofing<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                               |                           |                |      |          |

**JOINT SEALANTS ETC**

**Polysulphide sealing compound including backing  
cord, bond breaker, primer, etc**

|    |                                        |   |    |
|----|----------------------------------------|---|----|
| 90 | 10 x 10mm In vertical isolation joints | m | 34 |
|----|----------------------------------------|---|----|

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Waterproofing  
Contract  
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Bill of Quantities

Bill No. 5

Waterproofing

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Waterproofing  
Contract  
Part C2: Pricing Data

| Item No |                                                                                                                                                                                                                                                                            | Quantity       | Rate | Amount R |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|----------|
|         | <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                |                |      |          |
|         | <b><u>BILL NO. 6</u></b>                                                                                                                                                                                                                                                   |                |      |          |
|         | <b><u>ROOF COVERINGS ETC</u></b>                                                                                                                                                                                                                                           |                |      |          |
|         | <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                    |                |      |          |
|         | Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                       |                |      |          |
|         | <b><u>CPAP ADJUSTMENT</u></b>                                                                                                                                                                                                                                              |                |      |          |
|         | Unless otherwise stated all the following items shall be deemed to fall into Work Group 124 for Contract Price Adjustment Provisions                                                                                                                                       |                |      |          |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                      |                |      |          |
|         | <b><u>Straight cutting</u></b>                                                                                                                                                                                                                                             |                |      |          |
|         | Descriptions of all roof coverings are deemed to include for all straight cutting                                                                                                                                                                                          |                |      |          |
|         | -----                                                                                                                                                                                                                                                                      |                |      |          |
|         | <b><u>PROFIED METAL SHEETING AND ACCESSORIES</u></b>                                                                                                                                                                                                                       |                |      |          |
|         | <b><u>0.58mm spelter galvanised ribbed sheet steel with Chromadek finish on one side in single lengths and accessories, fixed to steel purlins using SL 700 approved clips and fasteners all in accordance with manufacturer's recommendations and specifications.</u></b> |                |      |          |
| 91      | Roof covering with pitch not exceeding 25 degrees                                                                                                                                                                                                                          | m <sup>2</sup> | 234  |          |
| 92      | Ridge covering 462mm girth                                                                                                                                                                                                                                                 | m              | 22   |          |
| 93      | Apex flashing 462mm girth                                                                                                                                                                                                                                                  | m              | 22   |          |
| 94      | Head wall flashing 308mm girth                                                                                                                                                                                                                                             | m              | 9    |          |
|         | <b>Carried to Collection</b>                                                                                                                                                                                                                                               |                |      | R        |
|         | Section No. 2<br>Roof Coverings<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                       |                |      |          |

**ROOF INSULATION**

**Heavy duty reflective aluminium foil bonded insulation**

|    |                                             |                |     |  |  |
|----|---------------------------------------------|----------------|-----|--|--|
| 95 | Insulation boards fixed over timber purlins | m <sup>2</sup> | 234 |  |  |
|----|---------------------------------------------|----------------|-----|--|--|

**Carried to Collection**

R

Section No. 2  
Roof Coverings  
Contract  
Part C2: Pricing Data

[illegible]

| Item No                                                                                                                                                                                                                                                                                                                                                                    | Quantity | Rate | Amount R |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                                                                                                                |          |      |          |
| <b><u>BILL NO. 7</u></b>                                                                                                                                                                                                                                                                                                                                                   |          |      |          |
| <b><u>CARPENTRY AND JOINERY</u></b>                                                                                                                                                                                                                                                                                                                                        |          |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                                                    |          |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                                                                                                                       |          |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                                      |          |      |          |
| <b>Plate nailed timber roof truss construction</b>                                                                                                                                                                                                                                                                                                                         |          |      |          |
| The following is applicable in respect of roof trusses:                                                                                                                                                                                                                                                                                                                    |          |      |          |
| Trusses are at maximum 1,20m centres. Roof covering is 0,58mm Corrugated sheeting on 50 x 75mm purlins. Ceilings are 6,4mm skimmed gypsum plasterboard sheeting on 38 x 38mm brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements shall be obtained from the architect and/or the site before design or fabrication commences |          |      |          |
| <b>Joinery</b>                                                                                                                                                                                                                                                                                                                                                             |          |      |          |
| Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc                                                                                                                                                                                                                                                                                  |          |      |          |
| Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes                                                                                                                                                                                                                                                                                        |          |      |          |
| <b>Fixing</b>                                                                                                                                                                                                                                                                                                                                                              |          |      |          |
| Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete                                                                                                                                                                                                                                                    |          |      |          |
| <b>Decorative laminate finish</b>                                                                                                                                                                                                                                                                                                                                          |          |      |          |
| Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish                                                                                                                                                                                                                                                 |          |      |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                               |          |      | R        |
| Section No. 2<br>Carpentry and Joinery<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                                                                |          |      |          |

|                                                                                                                                   |                                                                                                                                                    |                |    |
|-----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------|----|
| -----                                                                                                                             |                                                                                                                                                    |                |    |
| <b><u>ROOFS, ETC</u></b>                                                                                                          |                                                                                                                                                    |                |    |
| <b><u>Supply and install complete plate nailed roof truss construction</u></b>                                                    |                                                                                                                                                    |                |    |
| 96                                                                                                                                | Double pitched roof 6m2 overall on plan, including part trusses, jack rafters, permanent bracing, 38 x 114mm purlins at centres for roof sheeting. | No             | 1  |
| 97                                                                                                                                | Mono pitched roof 11m2 overall on plan, including part trusses, jack rafters, permanent bracing, 38 x 114mm purlins at centres for roof sheeting.  | No             | 1  |
| <b><u>Sundries</u></b>                                                                                                            |                                                                                                                                                    |                |    |
| 98                                                                                                                                | Two coats wood preservative applied hot on sawn and wrought exposed timbers at eaves                                                               | m <sup>2</sup> | 3  |
| <b><u>EAVES, VERGES, ETC</u></b>                                                                                                  |                                                                                                                                                    |                |    |
| <b><u>Medium density plain fibre-cement plain fascias and barge boards</u></b>                                                    |                                                                                                                                                    |                |    |
| 99                                                                                                                                | 12 x 300mm Fascias and barge boards, including aluminium H-profile joiners                                                                         | m              | 48 |
| <b><u>SKIRTINGS</u></b>                                                                                                           |                                                                                                                                                    |                |    |
| <b><u>Wrought meranti</u></b>                                                                                                     |                                                                                                                                                    |                |    |
| 100                                                                                                                               | 20 x 120mm Skirtings                                                                                                                               | m              | 26 |
| <b><u>DOORS, ETC</u></b>                                                                                                          |                                                                                                                                                    |                |    |
| <b><u>Semi-solid flush panel door with concealed hardwood edges and commercial veneer on both sides, hung to steel frames</u></b> |                                                                                                                                                    |                |    |
| 101                                                                                                                               | 44mm Thick single door size 813 x 2032mm high                                                                                                      | No             | 6  |
| <b>Carried to Collection</b>                                                                                                      |                                                                                                                                                    |                | R  |
| Section No. 2<br>Carpentry and Joinery<br>Contract<br>Part C2: Pricing Data                                                       |                                                                                                                                                    |                |    |

|     |                                                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|
|     | <b><u>Solid core flush panel doors with concealed hardwood edge strips with solid chipboard core clad with commercial veneer facing on both sides and hung to steel frames (Steel frames measured elsewhere)</u></b>                                                                                                                                                                                                            |    |   |   |
| 102 | 44mm Thick single door size 915 x 2100mm high                                                                                                                                                                                                                                                                                                                                                                                   | No | 3 |   |
|     | <b><u>JOINERY FITTINGS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                  |    |   |   |
|     | <b><u>General</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, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc |    |   |   |
|     | <b><u>KITCHEN CUPBOARDS</u></b>                                                                                                                                                                                                                                                                                                                                                                                                 |    |   |   |
|     | <b><u>22mm Thick white melamine carcass base and shelves with masonite backing and black painted chipboard kickplates complete with and including timber bearers, melawood impact post formed wrapped doors fitted with appropriate hinges and all ironmongery</u></b>                                                                                                                                                          |    |   |   |
| 103 | Floor standing cupboard 2878mm girth x 600mm wide x 900mm high complete with back, divisions, drawers, filler pieces etc for supporting counter (counter measured elsewhere)                                                                                                                                                                                                                                                    | No | 1 |   |
| 104 | Floor standing cupboard 1860mm girth x 600mm wide x 900mm high complete with back, divisions, drawers, filler pieces etc for supporting counter (counter measured elsewhere)                                                                                                                                                                                                                                                    | No | 1 |   |
| 105 | Wall cupboard 2878mm long x 450mm wide x 700mm high complete with back, divisions etc                                                                                                                                                                                                                                                                                                                                           | No | 1 |   |
| 106 | Wall cupboard 1860mm long x 450mm wide x 700mm high complete with back, divisions etc                                                                                                                                                                                                                                                                                                                                           | No | 1 |   |
|     | <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                                                                                    |    |   | R |
|     | Section No. 2<br>Carpentry and Joinery<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                                                                                                                     |    |   |   |

**BUDGETARY ALLOWANCES**

**Joinery fittings**

107 Provide a sum of R30 000.00 (Thirty Thousand Rand)  
for staff counters, cupboard drawers, shelving etc

Item

**Carried to Collection**

R

Section No. 2  
Carpentry and Joinery  
Contract  
Part C2: Pricing Data

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| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Quantity       | Rate | Amount R |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|----------|
|         | <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 8</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as "bolted", the bolts are measured elsewhere</p> <p><b><u>Proprietary suspended ceilings</u></b></p> <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> <p>-----</p> <p><b><u>CEILINGS, ETC</u></b></p> <p><b><u>Approved insulation</u></b></p> |                |      |          |
| 108     | 50mm Insulation closely fitted and laid on top of branderling between roof timbers, etc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | m <sup>2</sup> | 89   |          |
|         | <p style="text-align: right;"><b>Carried to Collection</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |      | R        |
|         | <p>Section No. 2<br/>Ceilings, Partitions and Access Flooring<br/>Contract<br/>Part C2: Pricing Data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |      |          |

**NAILED UP CEILINGS**

**12.5mm Vinyl Faced Gypsum Ceiling Panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated exposed demountable suspension system including galvanised main tees, cross tees, etc., all suspended with galvanised hangers at centres not exceeding 1200mm, all installed to manufacturer's instructions.**

109 Horizontal ceilings, including 38 x 38mm sawn softwood  
brandering at 450mm centres

m<sup>2</sup>

37

**SUSPENDED CEILINGS**

**1200 x 600 x 15mm biologically absorbable mineral wool fire rated ceiling tiles, with Square-edge and white painted finish, laid on fire rated demountable suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of galvanised hangers at centres not exceeding 1200mm with ceiling perimeter**

110 Horizontal ceilings suspended not exceeding 1m below  
concrete soffits

m<sup>2</sup>

63

**Cornices to suspended ceilings**

111 Pre-painted cornices, nailed and plugged

m

192

**Carried to Collection**

R

Section No. 2  
Ceilings, Partitions and Access Flooring  
Contract  
Part C2: Pricing Data

Section No. 2  
Bill of Quantities  
Bill No. 8  
Ceilings, Partitions and Access Flooring

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Section No. 2  
Ceilings, Partitions and Access Flooring  
Contract  
Part C2: Pricing Data

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| Item No |                                                                                                                                                                                                                                          | Quantity       | Rate | Amount R |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|----------|
|         | <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                              |                |      |          |
|         | <b><u>BILL NO. 9</u></b>                                                                                                                                                                                                                 |                |      |          |
|         | <b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>                                                                                                                                                                                         |                |      |          |
|         | <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                  |                |      |          |
|         | Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                     |                |      |          |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                    |                |      |          |
|         | <b><u>Fixing</u></b>                                                                                                                                                                                                                     |                |      |          |
|         | Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc                                                                                     |                |      |          |
|         | -----                                                                                                                                                                                                                                    |                |      |          |
|         | <b><u>FLOOR COVERINGS</u></b>                                                                                                                                                                                                            |                |      |          |
|         | <b><u>100% Stainproof (Polypropylene) structured needlepunch SABS Class 3 fire rating grade heavy commercial carpet tiles, size 500 x 500 x 8,5mm thick, all installed by approved installer in accordance with SANS 10186:2010.</u></b> |                |      |          |
| 112     | On floors                                                                                                                                                                                                                                | m <sup>2</sup> | 17   |          |
|         | <b><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u></b>                                                                                                                                                                                    |                |      |          |
| 113     | Natural anodised aluminium edge strips between different floor finishes                                                                                                                                                                  | m              | 1    |          |
|         | <b>Carried Forward to Summary of Section No. 2</b>                                                                                                                                                                                       |                |      |          |
|         | Section No. 2                                                                                                                                                                                                                            |                |      |          |
|         | Floor Coverings and Wall Linings                                                                                                                                                                                                         |                |      |          |
|         | Contract                                                                                                                                                                                                                                 |                |      |          |
|         | Part C2: Pricing Data                                                                                                                                                                                                                    |                |      |          |
|         |                                                                                                                                                                                                                                          |                | R    |          |

| Item No                                                                                                                                                                                                                                                                                                                                                               |                                                                                 | Quantity | Rate | Amount R |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                                                                                                           |                                                                                 |          |      |          |
| <b><u>BILL NO. 10</u></b>                                                                                                                                                                                                                                                                                                                                             |                                                                                 |          |      |          |
| <b><u>IRONMONGERY</u></b>                                                                                                                                                                                                                                                                                                                                             |                                                                                 |          |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                                               |                                                                                 |          |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                                                                                                                  |                                                                                 |          |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                                                                                 |                                                                                 |          |      |          |
| <b><u>Finishes to ironmongery</u></b>                                                                                                                                                                                                                                                                                                                                 |                                                                                 |          |      |          |
| 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 AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded |                                                                                 |          |      |          |
| <b><u>NOTE:</u></b>                                                                                                                                                                                                                                                                                                                                                   |                                                                                 |          |      |          |
| <b><u>ALL LOCKS TO BE ON A MASTER AND GRAND MASTER KEY SYSTEM</u></b>                                                                                                                                                                                                                                                                                                 |                                                                                 |          |      |          |
| -----                                                                                                                                                                                                                                                                                                                                                                 |                                                                                 |          |      |          |
| <b><u>HINGES, BOLTS, ETC</u></b>                                                                                                                                                                                                                                                                                                                                      |                                                                                 |          |      |          |
| <b><u>Grade 304 Stainless steel</u></b>                                                                                                                                                                                                                                                                                                                               |                                                                                 |          |      |          |
| 114                                                                                                                                                                                                                                                                                                                                                                   | WC indicator bolt                                                               | No       | 5    |          |
| 115                                                                                                                                                                                                                                                                                                                                                                   | Disabled indicator bolt, fixed to surface with matching stainless steel screws. | No       | 1    |          |
| 116                                                                                                                                                                                                                                                                                                                                                                   | 88 x 100mm High overall bush bearing butt hinge                                 | No       | 2    |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                                                                          |                                                                                 |          |      | R        |
| Section No. 2<br>Ironmongery<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                                                                     |                                                                                 |          |      |          |

**LOCKS**

**Grade 304 Stainless steel**

|     |                                                                                                   |    |   |
|-----|---------------------------------------------------------------------------------------------------|----|---|
| 117 | Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel | No | 9 |
| 118 | Security Deadlock with a Deadcase plate in the door frame with Master key functioning.            | No | 1 |

**PUSH PLATES AND KICKING PLATES**

**Grade 304 Stainless steel plates counter sunk  
screwed along edges at not exceeding 200mm  
centres**

|     |                        |    |   |
|-----|------------------------|----|---|
| 119 | 813 x 200mm Kick plate | No | 6 |
| 120 | 900 x 200mm Kick plate | No | 3 |

**HANDLES**

**Grade 304 Stainless steel**

|     |                                              |       |    |
|-----|----------------------------------------------|-------|----|
| 121 | Round D pull handle on 19 x 200 mm backplate | Pairs | 14 |
| 122 | Round D pull handle on 19 x 300 mm backplate | Pairs | 1  |

**DOOR CLOSERS**

**Approved**

|     |                                     |    |   |
|-----|-------------------------------------|----|---|
| 123 | Approved delayed action door closer | No | 4 |
|-----|-------------------------------------|----|---|

**LETTERS, NAMEPLATES, ETC**

**Stainless steel**

|     |                                                          |    |   |
|-----|----------------------------------------------------------|----|---|
| 124 | 152 x 152 x 2mm Thick engraved with female pictogram     | No | 2 |
| 125 | 152 x 152 x 2mm Thick engraved with male pictogram       | No | 2 |
| 126 | 152 x 152 x 2mm Thick engraved with paraplegic pictogram | No | 1 |

**Carried to Collection**

R

Section No. 2  
Ironmongery  
Contract  
Part C2: Pricing Data

**Refurbishments and Upgrades to Longdale Train Station**  
**Prasa South Gauteng Region Corridor 3**

|                                 |                                                                                                                                                                                                     |    |   |   |  |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|--|
| 127                             | 152 x 152 x 2mm Thick engraved with kitchen and breakroom pictogram                                                                                                                                 | No | 2 |   |  |
| 128                             | 152 x 152 x 2mm Thick engraved with cleaning store pictogram                                                                                                                                        | No | 1 |   |  |
| <b><u>SUNDRIES</u></b>          |                                                                                                                                                                                                     |    |   |   |  |
| <b><u>Approved</u></b>          |                                                                                                                                                                                                     |    |   |   |  |
| 129                             | Stainless steel door stop                                                                                                                                                                           | No | 1 |   |  |
| 130                             | Hat and coat hook                                                                                                                                                                                   | No | 1 |   |  |
| <b><u>BATHROOM FITTINGS</u></b> |                                                                                                                                                                                                     |    |   |   |  |
| 131                             | Satin stainless steel recessed toilet roll holders for single or two rolls, plugged and screwed to the wall with stainless steel screws.                                                            | No | 8 |   |  |
| 132                             | Satin stainless steel sanitary towel disposal bins with capacity of min 10 litres, free standing or wall mounted (plugged and screwed to the wall with stainless steel screws)                      | No | 4 |   |  |
| 133                             | Satin stainless steel waste disposal bins with capacity of plus minus 40 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws. | No | 2 |   |  |
| 134                             | Satin stainless steel waste disposal bins with capacity of plus minus 20 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws. | No | 3 |   |  |
| 135                             | Satin stainless steel towel rings, plugged and screwed to the wall with stainless steel screws.                                                                                                     | No | 2 |   |  |
| 136                             | Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock , plugged and screwed to the wall with stainless steel screws.                             | No | 5 |   |  |
| 137                             | Satin stainless steel paper towel dispenser with min 600 folded paper towels and cylinder lock, plugged and screwed to the wall with stainless steel screws.                                        | No | 5 |   |  |
| <b>Carried to Collection</b>    |                                                                                                                                                                                                     |    |   | R |  |
| Section No. 2                   |                                                                                                                                                                                                     |    |   |   |  |
| Ironmongery                     |                                                                                                                                                                                                     |    |   |   |  |
| Contract                        |                                                                                                                                                                                                     |    |   |   |  |
| Part C2: Pricing Data           |                                                                                                                                                                                                     |    |   |   |  |

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

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**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

Section No. 2

Bill of Quantities

Bill No. 10

Ironmongery

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Section No. 2

Ironmongery

Contract

Part C2: Pricing Data

| Item No                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Quantity                                                                       | Rate | Amount R |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------|----------|
| <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 11</u></b></p> <p><b><u>METALWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions</u></b></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>-----</p> <p><b><u>GALVANISED STEEL WELDED SCREENS</u></b></p> <p><b><u>Gates formed of 50 x 6mm flat section outer frame and 25 x 25 x 3mm angle section inner frame welded to outer frame, filled in with approved expanded metal panel fixed all round to inner frame with 20 x 20 x 3mm angle section fixing beads bolted on with and including 6mm diameter bolts at 500mm centres and fitted with a pair of suitable hinges welded to post</u></b></p> |                                                                                |      |          |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Single gate 900 x 2100mm high and lockable sliding bolt with keep in gate post | No   | 3        |
| <p><b>Carried to Collection</b></p> <p>Section No. 2<br/>Metalwork<br/>Contract<br/>Part C2: Pricing Data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                |      | R        |

|                                                                 |                                                                                                                                                                                                                                                                                                                                     |    |   |  |   |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|--|---|
| 143                                                             | Double gate 1575 x 2100mm high with and including two 16mm expansion bolts for fixing gate, with hasp and staple and 12mm drop bolt welded on                                                                                                                                                                                       | No | 1 |  |   |
|                                                                 | <b><u>PRESSED STEEL DOOR FRAMES</u></b>                                                                                                                                                                                                                                                                                             |    |   |  |   |
|                                                                 | <b><u>1,2mm Thick double rebated frames suitable for half brick walls complete with hoop iron anchors welded to frame, one adjustable chromium plated steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one and a half pair 100mm knuckle loose pin steel hinges welded to frame</u></b> |    |   |  |   |
| 144                                                             | Frame for door size 813 x 2032mm high                                                                                                                                                                                                                                                                                               | No | 1 |  |   |
|                                                                 | <b><u>1,2mm Thick double rebated frames suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable chromium plated steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one and a half pair 100mm knuckle loose pin steel hinges welded to frame</u></b>  |    |   |  |   |
| 145                                                             | Frame for door size 900 x 2100mm high                                                                                                                                                                                                                                                                                               | No | 3 |  |   |
|                                                                 | <b><u>ALUMINIUM SHOP FRONTS, DOORS, WINDOWS, ETC</u></b>                                                                                                                                                                                                                                                                            |    |   |  |   |
|                                                                 | <b><u>Natural anodized aluminium windows preglazed with 6,5mm thick clear laminated safety glass complete with anti bandit butler, ironmongery and fittings including sealing with approved silicone sealant and fixed to brickwork or concrete</u></b>                                                                             |    |   |  |   |
| 146                                                             | Window overall size 500 x 650mm high                                                                                                                                                                                                                                                                                                | No | 1 |  |   |
| 147                                                             | Window overall size 600 x 950mm high                                                                                                                                                                                                                                                                                                | No | 2 |  |   |
| 148                                                             | Window overall size 1500 x 950mm high                                                                                                                                                                                                                                                                                               | No | 1 |  |   |
| <b>Carried to Collection</b>                                    |                                                                                                                                                                                                                                                                                                                                     |    |   |  | R |
| Section No. 2<br>Metalwork<br>Contract<br>Part C2: Pricing Data |                                                                                                                                                                                                                                                                                                                                     |    |   |  |   |

**SECURITY PAYROLL WINDOWS**

**Level G3 bullet resistant glazed & natural anodised aluminium transaction window with 30mm deep stainless steel dish tray and speech transfer posts (interior applications only), overall size to details, glazed in 38mm thick clear glass with 32mm post formed granite counter top.**

|     |                                                             |    |   |
|-----|-------------------------------------------------------------|----|---|
| 149 | Bullet resistant glass transaction window 450 x 1050mm high | No | 3 |
|-----|-------------------------------------------------------------|----|---|

**RECYCLING BINS**

**Stainless steel furniture**

|     |                                                                                           |    |   |
|-----|-------------------------------------------------------------------------------------------|----|---|
| 150 | Recycling bin formed of GRC and stainless steel . Overall size 1010mm wide x 1140mm high. | No | 2 |
|-----|-------------------------------------------------------------------------------------------|----|---|

**Carried to Collection**

R

Section No. 2  
Metalwork  
Contract  
Part C2: Pricing Data

**Refurbishments and Upgrades to Longdale Train Station  
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Section No. 2

Bill of Quantities

Bill No. 11

Metalwork

**COLLECTION PAGE**

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**Amount  
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Section No. 2

Metalwork

Contract

Part C2: Pricing Data

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| Item No                                                                                                                                                                                                                                                                                                      |                                               | Quantity       | Rate | Amount R |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                                                  |                                               |                |      |          |
| <b><u>BILL NO. 13</u></b>                                                                                                                                                                                                                                                                                    |                                               |                |      |          |
| <b><u>TILING</u></b>                                                                                                                                                                                                                                                                                         |                                               |                |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                                                      |                                               |                |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                                                         |                                               |                |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                                                        |                                               |                |      |          |
| Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding |                                               |                |      |          |
| -----                                                                                                                                                                                                                                                                                                        |                                               |                |      |          |
| <b><u>WALL TILING</u></b>                                                                                                                                                                                                                                                                                    |                                               |                |      |          |
| <b><u>600 x 300mm x 12mm Thick glazed full bodied porcelain tiles fixed to internal wall plaster backing with tile adhesive mixed with bonding liquid in lieu of water with joints continuous in both directions and grouted with tile grout (Wall plaster measured elsewhere).</u></b>                      |                                               |                |      |          |
| 154                                                                                                                                                                                                                                                                                                          | On walls                                      | m <sup>2</sup> | 186  |          |
| 155                                                                                                                                                                                                                                                                                                          | On narrow widths                              | m <sup>2</sup> | 1    |          |
| <b><u>600 x 300mm x 12mm Thick matt full bodied porcelain tiles fixed to internal wall plaster backing with tile adhesive mixed with bonding liquid in lieu of water with joints continuous in both directions and grouted with tile grout (Wall plaster measured elsewhere).</u></b>                        |                                               |                |      |          |
| 156                                                                                                                                                                                                                                                                                                          | On walls in isolated panels, splashbacks, etc | m <sup>2</sup> | 3    |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                                                 |                                               |                |      | R        |
| Section No. 2<br>Tiling<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                                                                 |                                               |                |      |          |

**FLOOR TILING**

**600 x 600 x 10mm Thick slip rated full Bodied  
Porcelain tiles, mineralised with 3mm grouting lines,  
bedded in and including waterproof tiling cement  
and waterproof tile grouting to joints and fixed to  
screeds (screeds measured elsewhere)**

|     |                        |                |     |
|-----|------------------------|----------------|-----|
| 157 | On floors and landings | m <sup>2</sup> | 117 |
| 158 | Skirting 100mm high    | m              | 167 |

**Carried to Collection**

**R**

Section No. 2  
Tiling  
Contract  
Part C2: Pricing Data

Section No. 2

Bill of Quantities

Bill No. 13

Tiling

**COLLECTION PAGE**

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Section No. 2

Tiling

Contract

Part C2: Pricing Data

| Item No                                                                                                                                                              | Quantity | Rate | Amount R |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                          |          |      |          |
| <b><u>BILL NO. 14</u></b>                                                                                                                                            |          |      |          |
| <b><u>PLUMBING AND DRAINAGE</u></b>                                                                                                                                  |          |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                              |          |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities |          |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                |          |      |          |
| Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings unless hailguards are allowed for in the bills of quantities                     |          |      |          |
| <b><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></b>                                                                                              |          |      |          |
| Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)                                                                             |          |      |          |
| Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)                                              |          |      |          |
| Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)                                                                           |          |      |          |
| Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable                                                                 |          |      |          |
| <b><u>Waste unions</u></b>                                                                                                                                           |          |      |          |
| Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings                                                       |          |      |          |
| <b><u>Sealing of edges</u></b>                                                                                                                                       |          |      |          |
| Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone                                                  |          |      |          |
| <b>Carried to Collection</b>                                                                                                                                         |          |      | R        |
| Section No. 2<br>Plumbing and Drainage<br>Contract<br>Part C2: Pricing Data                                                                                          |          |      |          |

**uPVC pipes and fittings**

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

**uPVC pressure pipes and fittings**

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings

**Copper pipes**

All copper pipework shall be half hard drawn copper tubing pipes class 2 (medium) to SANS 460 and SANS 1067 used in conjunction with capillary type soldered joints done in accordance with the manufacturer's specifications, and installed in accordance with SANS 10400: 2011 and SANS 10252-1:2012, including couplers along the running length, and all necessary supports, fixing, brackets, saddles, holderbats, etc, and flow direction arrows including colour-coded galvanised metal sheet strips painted and affixed to the pipes in accordance with SANS 10140-3:2003.

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

All hot and cold water pipes are to be chased into walls except where pipes are to be surface-mounted on wall faces or run in ceiling voids or inside ducts, and fixed with standard type pipe saddles and brackets at 1000mm maximum

**Carried to Collection**

Section No. 2  
Plumbing and Drainage  
Contract  
Part C2: Pricing Data

R

All pipes suspended from concrete slabs, roof, ceiling, etc, shall be deemed to include in the rates all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab.

**Reducing fittings**

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

**Fixing of pipes**

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

**Paper wrapping to pipes**

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

**Disinfection of water pipework**

Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere)

**Petrolatum anti-corrosion tape**

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 30% overlaps

Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc

Prices for wrapping of pipes shall include for all work as described to couplings in the length

**Carried to Collection**

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Section No. 2  
Plumbing and Drainage  
Contract  
Part C2: Pricing Data

**Laying, backfilling, bedding, etc of pipes**

Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled

Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:

SANS 1200L : Medium-pressure pipelines

SANS 1200LD : Sewers

SANS 1200LE : Stormwater drainage

Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes)

Unless otherwise described bedding of rigid pipes shall be Class B bedding

**General**

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to uPVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

**Carried to Collection**

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Section No. 2  
Plumbing and Drainage  
Contract  
Part C2: Pricing Data

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

**Exposed concrete surfaces**

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

**Excavations**

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

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

**As-built drawings**

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**RAINWATER DISPOSAL**

**0.9mm Galvanised steel sheet with chromadek finish one side and standard backing coat**

|     |                                                     |    |    |
|-----|-----------------------------------------------------|----|----|
| 159 | 100 x 150mm Eaves gutters                           | m  | 48 |
| 160 | Extra over 100 x 150mm eaves gutter for stopped end | No | 8  |
| 161 | Extra for outlet for 100mm pipe                     | No | 8  |
| 162 | 100 x 75mm Rainwater pipes                          | m  | 31 |
| 163 | Extra over 100 x 75mm pipe for angle                | No | 8  |
| 164 | Extra over 100 x 75mm pipe for bend                 | No | 8  |

**Carried to Collection**

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Section No. 2  
Plumbing and Drainage  
Contract  
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**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

|                                                                             |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|------|---|--|
| 165                                                                         | Extra over 100 x 75mm pipe for shoe                                                                                                                                                                                                                                                                          | No | 8    |   |  |
| 166                                                                         | Extra 100 x 75mm pipe for eaves or plinth offset                                                                                                                                                                                                                                                             | No | 8    |   |  |
| <b><u>SOIL DRAINAGE</u></b>                                                 |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| <b><u>Vitrified clay gulleys</u></b>                                        |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| 167                                                                         | Gulley not exceeding 1m deep to invert comprising 100mm diameter vitrified clay gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in (3:1) cement mortar | No | 2    |   |  |
| <b><u>Sundries</u></b>                                                      |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| 168                                                                         | Testing drainage pipe system                                                                                                                                                                                                                                                                                 |    | Item |   |  |
| <b><u>BUDGETARY ALLOWANCES</u></b>                                          |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| <b><u>Sewer</u></b>                                                         |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| 169                                                                         | Provide a sum of R75 000.00 (Seventy Five Thousand Rand) for replacing damaged and missing manhole covers and clearing pipe blockages                                                                                                                                                                        |    | Item |   |  |
| <b><u>Stormwater</u></b>                                                    |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| 170                                                                         | Provide a sum of R75 000.00 (Seventy Five Thousand Rand) for replacing damaged and missing manhole covers and clearing pipe and open drain blockages                                                                                                                                                         |    | Item |   |  |
| <b><u>SANITARY FITTINGS</u></b>                                             |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| <b><u>1,6mm Stainless steel type 304 (18/10)</u></b>                        |                                                                                                                                                                                                                                                                                                              |    |      |   |  |
| 171                                                                         | Stainless steel single end bowl inset sink overall size 800 x 460mm wide with one 340 x 370 x 150mm deep bowl, fitted onto cupboard (elsewhere measured) including 38mm waste fitting and PVC trap (trap elsewhere measured).                                                                                | No | 1    |   |  |
| <b>Carried to Collection</b>                                                |                                                                                                                                                                                                                                                                                                              |    |      | R |  |
| Section No. 2<br>Plumbing and Drainage<br>Contract<br>Part C2: Pricing Data |                                                                                                                                                                                                                                                                                                              |    |      |   |  |

**Refurbishments and Upgrades to Longdale Train Station**  
**Prasa South Gauteng Region Corridor 3**

|                                                                             |                                                                                                                                                                                                                                                                           |    |   |   |  |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|---|---|--|
| 172                                                                         | Stainless steel double bowl inset sink overall size 1160 x 460mm wide with one 340 x 370 x 150mm deep bowl, fitted onto cupboard (elsewhere measured) including 38mm waste fitting and PVC trap (trap elsewhere measured).                                                | No | 1 |   |  |
|                                                                             | <b><u>White glazed vitreous china</u></b>                                                                                                                                                                                                                                 |    |   |   |  |
| 173                                                                         | Vitreous china top flush suite with floor mounted open rim pan, Top flush Cistern, pan fixations, normal close seat and top flush mechanism                                                                                                                               | No | 2 |   |  |
| 174                                                                         | Vitreous china security pan                                                                                                                                                                                                                                               | No | 5 |   |  |
| 175                                                                         | Vitreous china wall hung closed rim pan with soft close seat                                                                                                                                                                                                              | No | 1 |   |  |
| 176                                                                         | High quality non-corrosive 6/3 liter dual flush concealed cistern with inlet/outlet connector for floor mounted applications                                                                                                                                              | No | 6 |   |  |
| 177                                                                         | Vitreous china lavatory basin, size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts and including Universal half pedestal with hanger springs and sealed with silicone sealant where basin meets wall. | No | 1 |   |  |
| 178                                                                         | Vitreous china drop-in vanity basin colour White, size 420 x 420mm                                                                                                                                                                                                        | No | 2 |   |  |
| 179                                                                         | Vitreous china lavatory basin, size 440 x 380mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts sealed with silicone sealant where basin meets wall.                                                               | No | 4 |   |  |
| 180                                                                         | Vandal Resistant Urinal with automatic flush sensors or manual flush valve                                                                                                                                                                                                | No | 2 |   |  |
|                                                                             | <b><u>WASTE UNIONS ETC</u></b>                                                                                                                                                                                                                                            |    |   |   |  |
| 181                                                                         | 38mm Bath or sink waste union                                                                                                                                                                                                                                             | No | 2 |   |  |
|                                                                             | <b><u>TRAPS ETC</u></b>                                                                                                                                                                                                                                                   |    |   |   |  |
| 182                                                                         | 40mm Deep seal "P" or "S" trap                                                                                                                                                                                                                                            | No | 2 |   |  |
| 183                                                                         | Chromium plated bottle trap                                                                                                                                                                                                                                               | No | 7 |   |  |
| <b>Carried to Collection</b>                                                |                                                                                                                                                                                                                                                                           |    |   | R |  |
| Section No. 2<br>Plumbing and Drainage<br>Contract<br>Part C2: Pricing Data |                                                                                                                                                                                                                                                                           |    |   |   |  |

**Refurbishments and Upgrades to Longdale Train Station**  
**Prasa South Gauteng Region Corridor 3**

**TAPS, VALVES, ETC**

|     |                                                                                                                                       |    |   |
|-----|---------------------------------------------------------------------------------------------------------------------------------------|----|---|
| 184 | 15mm Chrome plated single lever basin mixer with square type handles and cast fixed spout                                             | No | 2 |
| 185 | Chrome plated self-closing push button metering spout, pillar type with non-hold open feature for cold water only                     | No | 4 |
| 186 | Medical elbow action pillar tap with high waist or equal approved, chrome finish                                                      | No | 1 |
| 187 | 15mm Chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges                                          | No | 2 |
| 188 | 15mm Ø BSP built-in sleeve, brass urinal flush valve with internal flow control, strainer and no-hold feature for single bowl urinal. | No | 2 |

**Carried to Collection**

R

Section No. 2  
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| Item No                                                                                                                                                                                                   |                                               | Quantity | Rate | Amount R  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|------|-----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                               |                                               |          |      |           |
| <b><u>BILL NO. 15</u></b>                                                                                                                                                                                 |                                               |          |      |           |
| <b><u>GLAZING</u></b>                                                                                                                                                                                     |                                               |          |      |           |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                   |                                               |          |      |           |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                      |                                               |          |      |           |
| -----                                                                                                                                                                                                     |                                               |          |      |           |
| <b><u>GLAZING TO STEEL WITH PUTTY</u></b>                                                                                                                                                                 |                                               |          |      |           |
| <b><u>4mm Clear float glass</u></b>                                                                                                                                                                       |                                               |          |      |           |
| 189                                                                                                                                                                                                       | Panes not exceeding 0,1 m2                    | m²       | 3    |           |
| 190                                                                                                                                                                                                       | Panes exceeding 0,5m2 and not exceeding 2m2   | m²       |      | Rate Only |
| <b><u>GLAZING TO WOOD WITH PINNED-ON BEADS</u></b>                                                                                                                                                        |                                               |          |      |           |
| <b><u>4mm Clear float glass</u></b>                                                                                                                                                                       |                                               |          |      |           |
| 191                                                                                                                                                                                                       | Panes exceeding 0,1m2 and not exceeding 0,5m2 | m²       | 1    |           |
| <b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b>                                                                                                                                                          |                                               |          |      |           |
| <b><u>4mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b> |                                               |          |      |           |
| 192                                                                                                                                                                                                       | Mirror size 600 x 900mm high                  | No       | 8    |           |
| Carried Forward to Summary of Section No. 2                                                                                                                                                               |                                               |          |      | R         |
| Section No. 2                                                                                                                                                                                             |                                               |          |      |           |
| Glazing                                                                                                                                                                                                   |                                               |          |      |           |
| Contract                                                                                                                                                                                                  |                                               |          |      |           |
| Part C2: Pricing Data                                                                                                                                                                                     |                                               |          |      |           |

| Item No                                                                                                                                                                                                                                                                       | Quantity | Rate | Amount R |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                   |          |      |          |
| <b><u>BILL NO. 16</u></b>                                                                                                                                                                                                                                                     |          |      |          |
| <b><u>PAINTWORK</u></b>                                                                                                                                                                                                                                                       |          |      |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                                       |          |      |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                                          |          |      |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                                         |          |      |          |
| <b><u>DESCRIPTIONS</u></b>                                                                                                                                                                                                                                                    |          |      |          |
| Descriptions of paintwork shall be deemed to include for all cutting in                                                                                                                                                                                                       |          |      |          |
| <b><u>PREPARATORY WORK TO EXISTING WORK</u></b>                                                                                                                                                                                                                               |          |      |          |
| Previously painted plastered surfacesSurfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth |          |      |          |
| Previously painted metal surfacesSurfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal                                                                                                              |          |      |          |
| Previously painted wood surfacesSurfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth                                                    |          |      |          |
| -----                                                                                                                                                                                                                                                                         |          |      |          |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                                  |          |      | R        |
| Section No. 2<br>Paintwork<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                                               |          |      |          |

|                                                                                                                                |                                                 |                |    |   |  |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|----------------|----|---|--|
| <b><u>PAINTWORK, ETC TO NEW WORK ON</u></b>                                                                                    |                                                 |                |    |   |  |
| <b><u>FLOATED PLASTER SURFACES WITH</u></b>                                                                                    |                                                 |                |    |   |  |
| <b><u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u></b>                             |                                                 |                |    |   |  |
| 193                                                                                                                            | Internal walls                                  | m <sup>2</sup> | 76 |   |  |
| 194                                                                                                                            | Narrow widths                                   | m <sup>2</sup> | 5  |   |  |
| <b><u>One coat alkali resistant plaster primer and two coats modified acrylic fine textured emulsion paint on</u></b>          |                                                 |                |    |   |  |
| 195                                                                                                                            | External walls                                  | m <sup>2</sup> | 1  |   |  |
| 196                                                                                                                            | Narrow widths                                   | m <sup>2</sup> | 1  |   |  |
| <b><u>FIBRE-CEMENT SURFACES WITH</u></b>                                                                                       |                                                 |                |    |   |  |
| <b><u>Two coats pure acrylic paint on</u></b>                                                                                  |                                                 |                |    |   |  |
| 197                                                                                                                            | Cills                                           | m <sup>2</sup> | 3  |   |  |
| 198                                                                                                                            | On fascias and barge boards                     | m <sup>2</sup> | 15 |   |  |
| <b><u>METAL SURFACES WITH</u></b>                                                                                              |                                                 |                |    |   |  |
| <b><u>One coat multisurface primer and two coats gloss enamel paint on work in sound condition on steel</u></b>                |                                                 |                |    |   |  |
| 199                                                                                                                            | On door frames                                  | m <sup>2</sup> | 1  |   |  |
| <b><u>WOOD SURFACES WITH:</u></b>                                                                                              |                                                 |                |    |   |  |
| <b><u>One coat pink wood primer, one coat universal undercoat and two coats super universal high gloss enamel paint on</u></b> |                                                 |                |    |   |  |
| 200                                                                                                                            | Doors                                           | m <sup>2</sup> | 4  |   |  |
| <b><u>Three coats polyurethane suede varnish on</u></b>                                                                        |                                                 |                |    |   |  |
| 201                                                                                                                            | Skirtings, rails, etc not exceeding 300mm girth | m              | 26 |   |  |
| <b>Carried to Collection</b>                                                                                                   |                                                 |                |    | R |  |
| Section No. 2                                                                                                                  |                                                 |                |    |   |  |
| Paintwork                                                                                                                      |                                                 |                |    |   |  |
| Contract                                                                                                                       |                                                 |                |    |   |  |
| Part C2: Pricing Data                                                                                                          |                                                 |                |    |   |  |

**PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK ON**

General

All works are to be executed in strict accordance with the paint specifications of the manufacturer for the preparation of previously painted surfaces

Primer (first) coats may be thinned in accordance with the specifications of the manufacturer to aid the absorption of the paint

All surfaces must be sound, clean and have a moisture content of less than 12%

Previously painted plastered surfaces

Surfaces shall be thoroughly washed down to remove dirt and other contaminants and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler, and sanded smooth

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down to remove dirt and other contaminants and sanded lightly to provide a key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and any rust encountered shall be removed

Previously painted wood surfaces

Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a filler as described and sanded smooth

**BRICK OR QUARRY TILE SURFACES WITH**

**Two coats brick dressing on**

202 Recessed pointed faced walls

m<sup>2</sup>

396

**ON BAGGED BRICKWORK OR CONCRETE**

Carried to Collection

R

Section No. 2  
Paintwork  
Contract  
Part C2: Pricing Data

|                                                                                                                                                                                                                                                                           |                                              |                |     |   |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------|-----|---|--|
| <b><u>One coat primer and two coats exterior quality PVA emulsion paint</u></b>                                                                                                                                                                                           |                                              |                |     |   |  |
| 203                                                                                                                                                                                                                                                                       | On external walls                            | m <sup>2</sup> | 8   |   |  |
| <b><u>FLOATED PLASTER SURFACES WITH</u></b>                                                                                                                                                                                                                               |                                              |                |     |   |  |
| General                                                                                                                                                                                                                                                                   |                                              |                |     |   |  |
| Prepare and repair as specified, brush to remove all loose contaminants, rinse and apply one coat alkali resistant primer to bare substrate areas, one coat universal undercoat and two coats non-drip polyurethane enamel paint on existing alkyd-based painted surfaces |                                              |                |     |   |  |
| <b><u>Two coats modified acrylic fine textured emulsion paint on work in poor condition on</u></b>                                                                                                                                                                        |                                              |                |     |   |  |
| 204                                                                                                                                                                                                                                                                       | External walls and columns                   | m <sup>2</sup> | 1   |   |  |
| 205                                                                                                                                                                                                                                                                       | External walls in narrow widths              | m <sup>2</sup> | 1   |   |  |
| <b><u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u></b>                                                                                                                                                                        |                                              |                |     |   |  |
| 206                                                                                                                                                                                                                                                                       | Internal walls                               | m <sup>2</sup> | 764 |   |  |
| 207                                                                                                                                                                                                                                                                       | Ceilings and beams                           | m <sup>2</sup> | 69  |   |  |
| <b><u>METAL SURFACES WITH</u></b>                                                                                                                                                                                                                                         |                                              |                |     |   |  |
| <b><u>One coat multisurface primer and two coats gloss enamel paint on work in sound condition on steel</u></b>                                                                                                                                                           |                                              |                |     |   |  |
| 208                                                                                                                                                                                                                                                                       | Doors                                        | m <sup>2</sup> | 7   |   |  |
| 209                                                                                                                                                                                                                                                                       | Door frames                                  | m <sup>2</sup> | 42  |   |  |
| 210                                                                                                                                                                                                                                                                       | On windows                                   | m <sup>2</sup> | 5   |   |  |
| 211                                                                                                                                                                                                                                                                       | On steel sections not exceeding 300 mm girth | m              | 149 |   |  |
| 212                                                                                                                                                                                                                                                                       | On steel sections                            | m <sup>2</sup> | 74  |   |  |
| 213                                                                                                                                                                                                                                                                       | On eaves gutters not exceeding 300 mm girth  | m              | 1   |   |  |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                              |                                              |                |     | R |  |
| Section No. 2                                                                                                                                                                                                                                                             |                                              |                |     |   |  |
| Paintwork                                                                                                                                                                                                                                                                 |                                              |                |     |   |  |
| Contract                                                                                                                                                                                                                                                                  |                                              |                |     |   |  |
| Part C2: Pricing Data                                                                                                                                                                                                                                                     |                                              |                |     |   |  |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

|                                                                 |                                                                                                                                                                                                                                                                                                 |                |     |  |                  |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----|--|------------------|
|                                                                 | <b><u>One coat of waterprime, one coat of universal undercoat and two coats of gloss enamel on work in sound condition on steel</u></b>                                                                                                                                                         |                |     |  |                  |
| 214                                                             | Rails, bars, pipes, etc not exceeding 300mm girth                                                                                                                                                                                                                                               | m              | 119 |  |                  |
| 215                                                             | On walkway and bridge balustrades (both sides measured over the full flat area)                                                                                                                                                                                                                 | m <sup>2</sup> | 353 |  |                  |
|                                                                 | <b><u>Wash down thoroughly with degreaser and rinse with water removing all traces of degreaser. Allow to dry and prime with one coat primer and two coats polyurethane enamel paint on steel:</u></b>                                                                                          |                |     |  |                  |
| 216                                                             | Roller shutter doors                                                                                                                                                                                                                                                                            | m <sup>2</sup> | 42  |  |                  |
|                                                                 | <b><u>Spot priming bare metal surfaces with zinc chromate primer and applying two coats acrylic roof paint in colours which have a value of 7 or less on the Munsell system in accordance with SANS 1091 on previously painted steel in bad condition</u></b>                                   |                |     |  |                  |
| 217                                                             | On profiled roof sheeting (measured on flat)                                                                                                                                                                                                                                                    | m <sup>2</sup> |     |  | <b>Rate Only</b> |
|                                                                 | <b><u>WOOD SURFACES WITH:</u></b>                                                                                                                                                                                                                                                               |                |     |  |                  |
|                                                                 | <b><u>Remove all loose and flaking paint to sound substrate, stop, fill holes and cracks with wood filler, sand down, spot prime bare wood with primer for wood and apply one coat universal undercoat and two coats high gloss enamel paint on existing alkyd-based paint surfaces on:</u></b> |                |     |  |                  |
| 218                                                             | Doors                                                                                                                                                                                                                                                                                           | m <sup>2</sup> | 68  |  |                  |
| <b>Carried to Collection</b>                                    |                                                                                                                                                                                                                                                                                                 |                |     |  | <b>R</b>         |
| Section No. 2<br>Paintwork<br>Contract<br>Part C2: Pricing Data |                                                                                                                                                                                                                                                                                                 |                |     |  |                  |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

Section No. 2

Bill of Quantities

Bill No. 16

Paintwork

**COLLECTION PAGE**

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Section No. 2

Paintwork

Contract

Part C2: Pricing Data

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

| Item No |                                                                                                                                                                                                                                                                              | Quantity | Rate | Amount R   |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|------------|
|         | <b><u>SECTION NO. 2</u></b>                                                                                                                                                                                                                                                  |          |      |            |
|         | <b><u>BILL NO. 17</u></b>                                                                                                                                                                                                                                                    |          |      |            |
|         | <b><u>PROVISIONAL SUMS</u></b>                                                                                                                                                                                                                                               |          |      |            |
|         | -----                                                                                                                                                                                                                                                                        |          |      |            |
|         | <b><u>COMMUNITY LIASON OFFICER</u></b>                                                                                                                                                                                                                                       |          |      |            |
| 219     | Allow the amount of R54,000.00 (Fifty Four Thousand Rand) for the employment of a Community Liaison Officer for the entire duration of construction activities on site, to be used at the discretion of the Project Manager and deducted in whole or in part if not required | Item     |      | 54 000.00  |
| 220     | Allow for general attendance                                                                                                                                                                                                                                                 |          | %    |            |
| 221     | Allow for profit                                                                                                                                                                                                                                                             |          | %    |            |
|         | <b><u>EPWP TRAINING</u></b>                                                                                                                                                                                                                                                  |          |      |            |
| 222     | Allow the amount of R180,000.00 (One Hundred and Eighty Thousand Rand) for Expanded Public Works Programme Training, to be used at the discretion of the Project Manager and deducted in whole or in part if not required                                                    | Item     |      | 180 000.00 |
| 223     | Allow for general attendance                                                                                                                                                                                                                                                 |          | %    |            |
| 224     | Allow for profit                                                                                                                                                                                                                                                             |          | %    |            |
|         | <b><u>SIGNAGE</u></b>                                                                                                                                                                                                                                                        |          |      |            |
| 225     | Allow the amount of R50 000.00 (Fifty Thousand Hundred Rand) signage to be used at the discretion of the Project Manager and deducted in whole or in part if not required                                                                                                    | Item     |      | 50 000.00  |
| 226     | Allow for profit                                                                                                                                                                                                                                                             |          | %    |            |
| 227     | Allow for general attendance                                                                                                                                                                                                                                                 |          | %    |            |
|         | <b>Carried Forward to Summary of Section No. 2</b>                                                                                                                                                                                                                           |          | R    |            |
|         | Section No. 2                                                                                                                                                                                                                                                                |          |      |            |
|         | Provisional Amounts                                                                                                                                                                                                                                                          |          |      |            |
|         | Contract                                                                                                                                                                                                                                                                     |          |      |            |
|         | Part C2: Pricing Data                                                                                                                                                                                                                                                        |          |      |            |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

Section No. 2

**SECTION SUMMARY**

| <b>Bill<br/>No</b>                                 |                                          | <b>Page<br/>No</b> |  | <b>Amount<br/>R</b> |
|----------------------------------------------------|------------------------------------------|--------------------|--|---------------------|
| 1                                                  | Alterations                              | 32                 |  |                     |
| 2                                                  | Earthworks                               | 37                 |  |                     |
| 3                                                  | Concrete, Formwork and Reinforcement     | 41                 |  |                     |
| 4                                                  | Masonry                                  | 45                 |  |                     |
| 5                                                  | Waterproofing                            | 48                 |  |                     |
| 6                                                  | Roof Coverings                           | 51                 |  |                     |
| 7                                                  | Carpentry and Joinery                    | 56                 |  |                     |
| 8                                                  | Ceilings, Partitions and Access Flooring | 59                 |  |                     |
| 9                                                  | Floor Coverings and Wall Linings         | 60                 |  |                     |
| 10                                                 | Ironmongery                              | 65                 |  |                     |
| 11                                                 | Metalwork                                | 69                 |  |                     |
| 12                                                 | Plastering                               | 70                 |  |                     |
| 13                                                 | Tiling                                   | 73                 |  |                     |
| 14                                                 | Plumbing and Drainage                    | 82                 |  |                     |
| 15                                                 | Glazing                                  | 83                 |  |                     |
| 16                                                 | Paintwork                                | 89                 |  |                     |
| 17                                                 | Provisional Amounts                      | 90                 |  |                     |
| <b>Carried to Final Summary</b>                    |                                          |                    |  | R                   |
| Section No. 2<br>Contract<br>Part C2: Pricing Data |                                          |                    |  |                     |

## **SECTION NO.3 : CIVIL WORK**

| Item No                                                                                                                                                                                                                                                      | Quantity             | Rate           | Amount R |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|----------------|----------|
| <b><u>SECTION NO. 3</u></b>                                                                                                                                                                                                                                  |                      |                |          |
| <b><u>BILL NO. 1</u></b>                                                                                                                                                                                                                                     |                      |                |          |
| <b><u>PLATFORM RESURFACING</u></b>                                                                                                                                                                                                                           |                      |                |          |
| Unless otherwise described, the preambles and full descriptions of the items in the preceeding Bills are to apply equally to this Bill                                                                                                                       |                      |                |          |
| <b><u>PREAMBLES</u></b>                                                                                                                                                                                                                                      |                      |                |          |
| Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities                                                                                         |                      |                |          |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>                                                                                                                                                                                                                        |                      |                |          |
| <b><u>Descriptions and Preambles</u></b>                                                                                                                                                                                                                     |                      |                |          |
| Wherever possible abridged descriptions have been used for those items in the bill which appear under the main trade headings in previous bills. The full descriptions of these items and the Model Preambles are to, and do, apply equally to this section. |                      |                |          |
| <b><u>Testing of material and filling</u></b>                                                                                                                                                                                                                |                      |                |          |
| Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series                                                                                                         |                      |                |          |
| <b><u>ROADS - ASPHALT BASE AND SURFACING</u></b>                                                                                                                                                                                                             |                      |                |          |
| <b><u>DEMOLITIONS ETC</u></b>                                                                                                                                                                                                                                |                      |                |          |
| <b><u>Hacking up and removing</u></b>                                                                                                                                                                                                                        |                      |                |          |
| 1                                                                                                                                                                                                                                                            | Asphalt road surface | m <sup>2</sup> | 3 524    |
| <b>Carried to Collection</b>                                                                                                                                                                                                                                 |                      |                | R        |
| Section No. 3<br>Platforms<br>Contract<br>Part C2: Pricing Data                                                                                                                                                                                              |                      |                |          |

|                                                                                                                                            |                                                                                                                                                                                                                                          |                |       |   |  |
|--------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------|---|--|
| <b><u>EARTHWORKS (BULK EXCAVATION, FILLING ETC)</u></b>                                                                                    |                                                                                                                                                                                                                                          |                |       |   |  |
| <b><u>Extra over excavations for carting away</u></b>                                                                                      |                                                                                                                                                                                                                                          |                |       |   |  |
| 2                                                                                                                                          | Surplus material from stock piles on site to a dumping site to be located by the contractor                                                                                                                                              | m <sup>3</sup> | 176   |   |  |
| <b><u>Keeping excavations free of water</u></b>                                                                                            |                                                                                                                                                                                                                                          |                |       |   |  |
| 3                                                                                                                                          | Keeping excavations free of water                                                                                                                                                                                                        |                | Item  |   |  |
| <b><u>Compaction of surfaces</u></b>                                                                                                       |                                                                                                                                                                                                                                          |                |       |   |  |
| 4                                                                                                                                          | Rip and compact existing subbase to 90% of Mod AASHTO density                                                                                                                                                                            | m <sup>2</sup> | 3 524 |   |  |
| <b><u>Earth filling supplied by the contractor under pavings and roads or in soil mattress, etc as drawings 102472-CIV-005 and 006</u></b> |                                                                                                                                                                                                                                          |                |       |   |  |
| 5                                                                                                                                          | Subbase course under roads and parking compacted to 95% Mod AASHTO density (G5 material with CBR to be minimum 45% at 95% Mod AASHTO density, maximum PI to be 10 in accordance with SANS 1200M)                                         | m <sup>3</sup> | 1     |   |  |
| <b><u>Compaction of surfaces</u></b>                                                                                                       |                                                                                                                                                                                                                                          |                |       |   |  |
| 6                                                                                                                                          | Compaction of ground surface (G5 material) under roads and parking, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% of Mod AASHTO density | m <sup>2</sup> | 1     |   |  |
| <b><u>Prescribed density tests on filling:</u></b>                                                                                         |                                                                                                                                                                                                                                          |                |       |   |  |
| 7                                                                                                                                          | Allow for compaction tests by an approved laboratory to determine density of filling material.                                                                                                                                           | No             | 1     |   |  |
| <b><u>Additional prescribed density tests on filling as requested by the principal agent</u></b>                                           |                                                                                                                                                                                                                                          |                |       |   |  |
| 8                                                                                                                                          | Relative compaction test in accordance with methods A1, A10b and A17 of TMH1                                                                                                                                                             | No             | 10    |   |  |
| 9                                                                                                                                          | Indicator test in accordance with methods A1 to A5 of TMH1                                                                                                                                                                               | No             | 1     |   |  |
| <b>Carried to Collection</b>                                                                                                               |                                                                                                                                                                                                                                          |                |       | R |  |
| Section No. 3<br>Platforms<br>Contract<br>Part C2: Pricing Data                                                                            |                                                                                                                                                                                                                                          |                |       |   |  |

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

|                                                                                                                                                  |                                                          |                |       |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|----------------|-------|--|
| 10                                                                                                                                               | CBR test in accordance with method A8 of TMH1            | No             | 1     |  |
| 11                                                                                                                                               | UCS test in accordance with method A14 of TMH1           | No             | 1     |  |
| <b><u>SURFACING</u></b>                                                                                                                          |                                                          |                |       |  |
| <b><u>Asphalt road and parking surfacing</u></b>                                                                                                 |                                                          |                |       |  |
| 12                                                                                                                                               | 50mm Thick continuously graded asphalt surfacing         | m <sup>2</sup> | 3 524 |  |
| <b><u>Prime coat</u></b>                                                                                                                         |                                                          |                |       |  |
| 13                                                                                                                                               | MC-30 Cutback bitumen                                    | m <sup>2</sup> | 3 524 |  |
| <b><u>Tack coat</u></b>                                                                                                                          |                                                          |                |       |  |
| 14                                                                                                                                               | 30% Stable-grade emulsion                                | m <sup>2</sup> | 3 524 |  |
| <b><u>PAINTING</u></b>                                                                                                                           |                                                          |                |       |  |
| <b><u>Prepare and paint one coat colour reflective road marking paint on asphalt surfaces</u></b>                                                |                                                          |                |       |  |
| 15                                                                                                                                               | 100mm Wide yellow line                                   | m              | 548   |  |
| 16                                                                                                                                               | Single-headed directional arrow 400mm wide x 1400mm long | No             | 4     |  |
| 17                                                                                                                                               | Paraplegic sign painted on road surface                  | No             | 2     |  |
| <b><u>PAVING ETC</u></b>                                                                                                                         |                                                          |                |       |  |
| <b><u>300 x 300mm approved in-situ system, yellow colour, applied to existing surfaces all in accordance to manufacturer's instructions.</u></b> |                                                          |                |       |  |
| 18                                                                                                                                               | Warning tactile paving to platform edges                 | m <sup>2</sup> | 329   |  |
| <b>Carried to Collection</b>                                                                                                                     |                                                          |                |       |  |
| Section No. 3<br>Platforms<br>Contract<br>Part C2: Pricing Data                                                                                  |                                                          |                |       |  |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

Section No. 3

Civil Work

Bill No. 1

Platforms

**COLLECTION PAGE**

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R

Section No. 3

Platforms

Contract

Part C2: Pricing Data

| Item No                                                                |                                                                                                                                                                                                                                                                | Quantity | Rate | Amount R |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|------|----------|
| <b><u>SECTION NO. 3</u></b>                                            |                                                                                                                                                                                                                                                                |          |      |          |
| <b><u>BILL NO 2</u></b>                                                |                                                                                                                                                                                                                                                                |          |      |          |
| <b><u>STREET FURNITURE</u></b>                                         |                                                                                                                                                                                                                                                                |          |      |          |
| <b><u>FOLLOWING IN PLATFORM FURNITURE</u></b>                          |                                                                                                                                                                                                                                                                |          |      |          |
| <b><u>Galvanised steel furniture</u></b>                               |                                                                                                                                                                                                                                                                |          |      |          |
| 19                                                                     | Perforated galvanised steel seat 1800mm long with two legs mounted to 500 x 500 x 500mm 25 Mpa concrete base including excavation, carting away and concrete. Including filling both steel legs with concrete as per Architectural detail                      | No       | 14   |          |
| 20                                                                     | Perforated galvanised steel litter bin 497mm Diameter x 815mm high with one leg mounted to 500 x 500 x 500mm 25 Mpa concrete base including excavation, Carting away and concrete. Including filling both steel legs with concrete as per Architectural detail | No       | 10   |          |
| <b>Carried Forward to Summary of Section No. 3</b>                     |                                                                                                                                                                                                                                                                |          |      | R        |
| Section No. 3<br>Street Furniture<br>Contract<br>Part C2: Pricing Data |                                                                                                                                                                                                                                                                |          |      |          |

| Item No |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quantity       | Rate | Amount R |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|----------|
|         | <p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 3</u></b></p> <p><b><u>ROADS AND PARKING</u></b></p> <p>Unless otherwise described, the preambles and full descriptions of the items in the preceeding Bills are to apply equally to this Bill</p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Descriptions and Preambles</u></b></p> <p>Wherever possible abridged descriptions have been used for those items in the bill which appear under the main trade headings in previous bills. The full descriptions of these items and the Model Preambles are to, and do, apply equally to this section.</p> <p><b><u>Testing of material and filling</u></b></p> <p>Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series</p> <p><b><u>ROADS - ASPHALT BASE AND SURFACING</u></b></p> <p><b><u>DEMOLITIONS ETC</u></b></p> <p><b><u>Hacking up and removing</u></b></p> |                |      |          |
| 21      | Asphalt road surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | m <sup>2</sup> | 701  |          |
|         | <p><b><u>EARTHWORKS (BULK EXCAVATION, FILLING ETC)</u></b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |      |          |
|         | <p style="text-align: right;"><b>Carried to Collection</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | R    |          |
|         | <p>Section No. 3<br/>Roads and Paving<br/>Contract<br/>Part C2: Pricing Data</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |      |          |

|                                                                                                         |                                                                                                                                                                                                                                          |                |      |   |  |
|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|------|---|--|
| <b><u>Rip and compact of surfaces</u></b>                                                               |                                                                                                                                                                                                                                          |                |      |   |  |
| 22                                                                                                      | Rip and compact existing subbase to 90% of Mod AASHTO density                                                                                                                                                                            | m <sup>2</sup> | 701  |   |  |
| <b><u>Excavation not exceeding 2m deep</u></b>                                                          |                                                                                                                                                                                                                                          |                |      |   |  |
| 23                                                                                                      | In roadways and parking to reduce levels for layerworks and depositing excavated material in prescribed stock piles including haulage not exceeding 200m from perimeter of excavations                                                   | m <sup>3</sup> | 1    |   |  |
| <b><u>Extra over excavations for carting away</u></b>                                                   |                                                                                                                                                                                                                                          |                |      |   |  |
| 24                                                                                                      | Surplus material from stock piles on site to a dumping site to be located by the contractor                                                                                                                                              | m <sup>3</sup> | 35   |   |  |
| <b><u>Keeping excavations free of water</u></b>                                                         |                                                                                                                                                                                                                                          |                |      |   |  |
| 25                                                                                                      | Keeping excavations free of water                                                                                                                                                                                                        |                | Item |   |  |
| <b><u>Earth filling supplied by the contractor under pavings and roads or in soil mattress, etc</u></b> |                                                                                                                                                                                                                                          |                |      |   |  |
| 26                                                                                                      | Subbase course under roads and parking compacted to 95% Mod AASHTO density (G5 material with CBR to be minimum 45% at 95% Mod AASHTO density, maximum PI to be 10 in accordance with SANS 1200M)                                         | m <sup>3</sup> | 1    |   |  |
| <b><u>Compaction of surfaces</u></b>                                                                    |                                                                                                                                                                                                                                          |                |      |   |  |
| 27                                                                                                      | Compaction of ground surface (G5 material) under roads and parking, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% of Mod AASHTO density | m <sup>2</sup> | 1    |   |  |
| <b><u>Prescribed density tests on filling:</u></b>                                                      |                                                                                                                                                                                                                                          |                |      |   |  |
| 28                                                                                                      | Allow for compaction tests by an approved laboratory to determine density of filling material.                                                                                                                                           | No             | 10   |   |  |
| <b><u>Additional prescribed density tests on filling as requested by the principal agent</u></b>        |                                                                                                                                                                                                                                          |                |      |   |  |
| 29                                                                                                      | Relative compaction test in accordance with methods A1, A10b and A17 of TMH1                                                                                                                                                             | No             | 1    |   |  |
| <b>Carried to Collection</b>                                                                            |                                                                                                                                                                                                                                          |                |      | R |  |
| Section No. 3<br>Roads and Paving<br>Contract<br>Part C2: Pricing Data                                  |                                                                                                                                                                                                                                          |                |      |   |  |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

|                                                                                                                                                                |                                                            |    |     |   |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----|-----|---|--|
| 30                                                                                                                                                             | Indicator test in accordance with methods A1 to A5 of TMH1 | No | 1   |   |  |
| 31                                                                                                                                                             | CBR test in accordance with method A8 of TMH1              | No | 1   |   |  |
| 32                                                                                                                                                             | UCS test in accordance with method A14 of TMH1             | No | 1   |   |  |
| <b><u>SURFACING</u></b>                                                                                                                                        |                                                            |    |     |   |  |
| <b><u>Asphalt road and parking surfacing</u></b>                                                                                                               |                                                            |    |     |   |  |
| 33                                                                                                                                                             | 40mm Thick continuously graded asphalt surfacing           | m² | 701 |   |  |
| <b><u>Prime coat</u></b>                                                                                                                                       |                                                            |    |     |   |  |
| 34                                                                                                                                                             | MC-30 Cutback bitumen                                      | m² | 701 |   |  |
| <b><u>Tack coat</u></b>                                                                                                                                        |                                                            |    |     |   |  |
| 35                                                                                                                                                             | 30% Stable-grade emulsion                                  | m² | 701 |   |  |
| <b><u>PAINTING</u></b>                                                                                                                                         |                                                            |    |     |   |  |
| <b><u>Prepare and paint one coat colour reflective road marking paint on paving</u></b>                                                                        |                                                            |    |     |   |  |
| 36                                                                                                                                                             | 100mm Wide yellow line                                     | m  | 82  |   |  |
| 37                                                                                                                                                             | Single-headed directional arrow 400mm wide x 1400mm long   | No | 5   |   |  |
| 38                                                                                                                                                             | Paraplegic sign painted on road surface                    | No | 2   |   |  |
| <b><u>PAVING</u></b>                                                                                                                                           |                                                            |    |     |   |  |
| <b><u>300 x 300 x 30 mm Guidance tactile pavers on 20mm- 30mm thick compacted cement/riversand bed n base course and subgrade, conforming to SANS 1200</u></b> |                                                            |    |     |   |  |
| 39                                                                                                                                                             | Paving to walkways                                         | m² | 97  |   |  |
| <b>Carried to Collection</b>                                                                                                                                   |                                                            |    |     | R |  |
| Section No. 3<br>Roads and Paving<br>Contract<br>Part C2: Pricing Data                                                                                         |                                                            |    |     |   |  |

**Refurbishments and Upgrades to Longdale Train Station  
Prasa South Gauteng Region Corridor 3**

Section No. 3

Civil Work

Bill No. 3

Roads and Paving

**COLLECTION PAGE**

Total Brought Forward from Page No.

Total Brought Forward from Page No.

Total Brought Forward from Page No.

**Page  
No**

**Amount  
R**

97

98

99

**Carried Forward to Summary of Section No. 3**

R

Section No. 3  
Roads and Paving  
Contract  
Part C2: Pricing Data

Section No. 3

**SECTION SUMMARY**

| Bill No                                            |                  | Page No | Amount R |
|----------------------------------------------------|------------------|---------|----------|
| 1                                                  | Platforms        | 95      |          |
| 2                                                  | Street Furniture | 96      |          |
| 3                                                  | Roads and Paving | 100     |          |
| Carried to Final Summary                           |                  |         | R        |
| Section No. 3<br>Contract<br>Part C2: Pricing Data |                  |         |          |

## **SECTION NO.4 : ELECTRICAL WORK**

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

[illegible]

| PRASA LONGDALE STATION ELECTRICAL PROVISIONAL BOQ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |              |              |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|--------------|--------------|
| LV Reticulation                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |              |              |
| Item                                              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit | QTY | Cost         | Total Cost   |
|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |              |              |
|                                                   | <p><b>Distribution Boards</b></p> <p>Refurbish the following distribution boards, including all equipment, complete with all accessories. Installation shall include fixing, accessories and earthing.</p> <p>The price shall include for all fixing materials, circuit terminations, lugs, cable straps and any other items necessary for the complete installation. The price shall also include liaison with the board manufacturer, obtaining shop drawings for approval by the engineer, and the preparation and provision of detailed legend cards, as per the specification.</p> |      |     |              |              |
| 1                                                 | Site Kiosk DB - PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lot  | 1   | R 25 000,00  | R 25 000,00  |
| 2                                                 | Ticket Office - 18 Way - PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Lot  | 1   | R 15 000,00  | R 15 000,00  |
| 3                                                 | 160A MDB Refurb - PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Lot  | 1   | R 100 000,00 | R 100 000,00 |
| 4                                                 | Platform Distribution Boards - PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Lot  | 2   | R 25 000,00  | R 50 000,00  |
|                                                   | <p><b>Power Cabling</b></p> <p>Supply and install the following cables laid on cable tray, pulled in a sleeve or in a trench, including all fixings and accessories. The cables shall be 600/1000V/ PVC/SWA/PVC/ECC with copper conductors. Complete with terminations</p>                                                                                                                                                                                                                                                                                                              |      |     |              |              |
| 5                                                 | 50mm <sup>2</sup> x 4 core ecc cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m    | 100 |              |              |
| 6                                                 | 16mm <sup>2</sup> x 4 core ecc cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | m    | 90  |              |              |
|                                                   | <p><b>Standby Generator</b></p> <p>Supply, Rig and Install following Standby Generator, including all equipment, complete with all accessories. Installation shall include fixing, plinth, accessories and earthing.</p>                                                                                                                                                                                                                                                                                                                                                                |      |     |              |              |
| 7                                                 | Containerized 100kVA complete with Day tank and Automatic Transfer Switch                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Lot  | 1   |              |              |
| 8                                                 | Full Tank of Diesel upon Commissioning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Lot  | 1   |              |              |
| <b>Total Ex VAT</b>                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |              |              |

| <b>PRASA LONGDALE STATION ELECTRICAL PROVISIONAL BOQ</b> |                                                                                                                                                                                                                                                                                                          |             |            |             |                   |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|-------------|-------------------|
| <b>LIGHTING</b>                                          |                                                                                                                                                                                                                                                                                                          |             |            |             |                   |
| <b>Item</b>                                              | <b>Description</b>                                                                                                                                                                                                                                                                                       | <b>Unit</b> | <b>QTY</b> | <b>Cost</b> | <b>Total Cost</b> |
|                                                          |                                                                                                                                                                                                                                                                                                          |             |            |             |                   |
|                                                          | <b>LIGHTING</b>                                                                                                                                                                                                                                                                                          |             |            |             |                   |
| 1                                                        | 16 Amp, single lever light Switch                                                                                                                                                                                                                                                                        | Lot         | 10         |             |                   |
| 2                                                        | 5 Amp, 3 pin, unswitched socket outlet to fit deep round conduit boxes                                                                                                                                                                                                                                   | Lot         | 29         |             |                   |
| 3                                                        | LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed                                                                                                                                                                                                      | Lot         | 20         |             |                   |
| 4                                                        | LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed with Battery Backup                                                                                                                                                                                  | Lot         | 9          |             |                   |
| 5                                                        | 1578mm Surface Mounted fitting 53W LED complete with microwave sensor with 70'000hr operation warranty                                                                                                                                                                                                   | Lot         | 12         |             |                   |
| 6                                                        | Led Industrial Bulkhead fitting with unpainted marine grade high pressure die cast aluminium backing with non discolouring injection moulded high impact acrylic diffuser, IP66. 4370 lm 32W, Neutral white 740 with 10kv surge protection                                                               | Lot         | 20         |             |                   |
| 7                                                        | LED Pole Top with aluminium Spigot and Cover, high impact Acrylic Protector, IP55 rated, 3506-5219lm output, 37-54W with 142 Efficacy, Neutral white 740, complete with 5m Pole with 2m Stub                                                                                                             | Lot         | 20         |             |                   |
| 8                                                        | LED Type Highbay with marine grade high pressure die castaluminium housing, Acrylic PMMA optic with High Impact Polycarbonate diffuser, IP66 rated with 18350 - 50680 lm colour rendering Neutral White 840 Dali Controlled with optimum mounting height 4-12m, power consumption 132-451W, efficacy 149 | Lot         | 10         |             |                   |
| 9                                                        | Exit Sign/Running Man c/w battery backup including lamps                                                                                                                                                                                                                                                 | Lot         | 5          |             |                   |
| 10                                                       | 2,5mm² x 3 (Red, Black & Green) - Housewire                                                                                                                                                                                                                                                              | m           | 2000       |             |                   |
| 11                                                       | 25mm diameter PVC conduit                                                                                                                                                                                                                                                                                | m           | 300        |             |                   |
| <b>Total Ex VAT</b>                                      |                                                                                                                                                                                                                                                                                                          |             |            |             |                   |

**PRASA LONGDALE STATION ELECTRICAL PROVISIONAL BOQ**  
**SMALL POWER**

| Item                | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Unit | QTY  | Cost | Total Cost |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------------|
|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |            |
|                     | <b>SMALL POWER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |      |            |
| 1                   | 16 Amp, single Switched Socket Outlet - white - complete with 100x100 box chased                                                                                                                                                                                                                                                                                                                                                                            | No   | 12   |      |            |
| 2                   | 16 Amp, single Switched Socket Outlet - white on Power Skirting                                                                                                                                                                                                                                                                                                                                                                                             | No   | 16   |      |            |
| 3                   | 20 Amp, DP Isolator - complete with conduit to outlet box below-                                                                                                                                                                                                                                                                                                                                                                                            | No   | 2    |      |            |
| 4                   | 4mm <sup>2</sup> x 3 (Red, Black & Green) - Housewire                                                                                                                                                                                                                                                                                                                                                                                                       | m    | 1500 |      |            |
| 5                   | 25mm diameter PVC conduit                                                                                                                                                                                                                                                                                                                                                                                                                                   | m    | 100  |      |            |
| 6                   | 2 compartment PVC Power Skirting                                                                                                                                                                                                                                                                                                                                                                                                                            | m    | 25   |      |            |
| 7                   | 500VA single phase UPS                                                                                                                                                                                                                                                                                                                                                                                                                                      | Lot  | 3    |      |            |
| 8                   | To provide the earthing and testing of the electrical installation in accordance with the General Specification, regulations and the requirements of the local authority. All circuits shall be earthed in accordance with the wiring code. Where the earth conductor is joined at the terminal block, the wires shall be soldered together so that removal of the equipment shall not result in an interruption of the earth continuity of the conductors. | Lot  | 1    |      |            |
| <b>Total Ex VAT</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      |      |      |            |

| PRASA LONGDALE STATION ELECTRICAL PROVISIONAL BOQ |                 |      |
|---------------------------------------------------|-----------------|------|
| SUMMARY                                           |                 |      |
| Item                                              | Description     | Cost |
| 1                                                 | LV Reticulation |      |
| 2                                                 | Lighting        |      |
| 3                                                 | Small Power     |      |
| Sub Total Ex VAT                                  |                 |      |
| VAT @ 15%                                         |                 |      |
| <b>Total Inc VAT</b>                              |                 |      |

## **SECTION NO.5 : MECHANICAL WORK**

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

[illegible]

| ITEM NO            | DESCRIPTION                                                                                                                                                                                                                                                                                                  | UNIT | QTY | RATE | AMOUNT |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
|                    | <b><u>SECTION NO. 5</u></b><br><b><u>BILL NO. 1</u></b><br><b><u>HVAC INSTALLATION</u></b>                                                                                                                                                                                                                   |      |     |      |        |
| 1,0                | Supply and install the following AC units ( <i>DX system</i> ) , complete with matching refrigerant tubing, condensate drainage, mounting brackets, thermostats, remote controllers, electronic and electrical wiring upto isolator supplied by electrical contrcator and ALL MOUNTING ACCESSORIES NECESSARY |      |     |      |        |
| 1,1                | Inverter type Wall mounted units, cooling load 2.2kW, heating load 2.5kW with outdoor unit, refrigerant tubing, condensate drainageand all necessary accessories.                                                                                                                                            |      |     |      |        |
|                    | Supply                                                                                                                                                                                                                                                                                                       | No   | 4   |      |        |
|                    | Install                                                                                                                                                                                                                                                                                                      | No   | 4   |      |        |
| 2,0                | <b>General</b>                                                                                                                                                                                                                                                                                               |      |     |      |        |
| 2,1                | Stripping of existing air conditioning system                                                                                                                                                                                                                                                                | Item | 1   |      |        |
| 2,2                | Testing and commisioning of the above system to the complete satisfaction of the Mechanical engineer and client                                                                                                                                                                                              | item | 1   |      |        |
| 2,3                | Preparation and supply of handover documents                                                                                                                                                                                                                                                                 | item | 1   |      |        |
| 2,4                | Production of shop drawings and schematics                                                                                                                                                                                                                                                                   | item | 1   |      |        |
| <b>TOTAL</b>       |                                                                                                                                                                                                                                                                                                              |      |     |      | -      |
| VAT @ 15%          |                                                                                                                                                                                                                                                                                                              |      |     |      | -      |
| <b>GRAND TOTAL</b> |                                                                                                                                                                                                                                                                                                              |      |     |      | -      |

| ITEM NO.    | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                           | UNIT       | QTY    | TOTAL RATE | AMOUNT R c |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--------|------------|------------|
|             | <b><u>SECTION NO. 5</u></b><br><b><u>BILL NO. 2</u></b><br><b><u>FIRE INSTALLATION</u></b>                                                                                                                                                                                                                                                                                                                            |            |        |            |            |
| <b>1,00</b> | <b><u>General</u></b>                                                                                                                                                                                                                                                                                                                                                                                                 |            |        |            |            |
| 1,1         | Allow for Client instruction in the use and maintenance of all fire services equipment as required by the Manufacturers and the specification                                                                                                                                                                                                                                                                         | Item       | 1      |            |            |
| 1,2         | Allow for the Production and submittal of Operation & Maintenance Manuals and record information, workshop drawings and 'As-Built' drawings.                                                                                                                                                                                                                                                                          | Item       | 1      |            |            |
| <b>2</b>    | <b><u>Fire Plan</u></b><br>Design, manufacture, works testing, supply and delivery to site, moving into position, erection, connecting up, site testing, witness testing, proving to the inspectors, demonstrating to the Employer and maintenance of the complete installation as per conditions of contract and the specification and on drawings.                                                                  |            |        |            |            |
|             | <b><u>Fire Hydrants</u></b>                                                                                                                                                                                                                                                                                                                                                                                           |            |        |            |            |
| 2,1         | 65mm hydrant valve with handwheel opening mechanism & fittings.<br>Supply<br>Install                                                                                                                                                                                                                                                                                                                                  | No.<br>No. | 4<br>4 |            |            |
|             | <b><u>Fire Hose Reels</u></b>                                                                                                                                                                                                                                                                                                                                                                                         |            |        |            |            |
| 2,2         | Standard Wall Mounted Type Fire Hose Reel to comply with SANS 543 Fire hose reels shall be fitted with a 30m long reinforced red rubber hose of internal diameter of 20mm nominal bore, with a 4.8mm internal diameter chromium plated brass nozzle and isolating valve. Fire hose reel pipes above ground shall be colour coded signal red A11. Complete with double door hose reel cabinet<br><br>Supply<br>Install | No.<br>No. | 2<br>2 |            |            |
| 2,3         | Galvanised mild steel pipe treated with galvafrond paint and two coats of firemen red signal paint A11. Pipework to be complete with supports, bends, unions to make a complete installation                                                                                                                                                                                                                          |            |        |            |            |
| 2.3.1       | 25mm                                                                                                                                                                                                                                                                                                                                                                                                                  | m          | 10     |            |            |
| 2.3.2       | 50mm                                                                                                                                                                                                                                                                                                                                                                                                                  | m          | 20     |            |            |
| 2.3.3       | 100mm                                                                                                                                                                                                                                                                                                                                                                                                                 | m          | 450    |            |            |
| <b>3,0</b>  | <b><u>Fire extinguishers</u></b>                                                                                                                                                                                                                                                                                                                                                                                      |            |        |            |            |
| 3,1         | Fire extinguishers complete with supports & fittings.<br>4,5kg DCP fire extinguishers<br>Supply<br>Install                                                                                                                                                                                                                                                                                                            | No.<br>No. | 4<br>4 |            |            |
| 3,20        | Fire extinguishers complete with supports & fittings.<br>5kg CO2 fire extinguishers<br>Supply<br>Install                                                                                                                                                                                                                                                                                                              | No.<br>No. | 2<br>2 |            |            |

|      |                                                                                                                                                                                                                                                                              |     |   |  |  |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|---|--|--|
| 4,00 | Statutory Fire Signage<br>Supply and install photoluminescent signs (in Anodised aluminium frames) on all areas indicating the escape routes and equipment location. The installation shall comply to SANS 1186. The signs shall be mechanically fixed on walls and soffits. |     |   |  |  |
| 4,1  | E1/E2 (190mm high)                                                                                                                                                                                                                                                           | No. | 4 |  |  |
| 4,2  | E3 (190mm high)                                                                                                                                                                                                                                                              | No. | 4 |  |  |
| 4,3  | E6 (190mm high)                                                                                                                                                                                                                                                              | No. | 2 |  |  |
| 4,4  | E16/E17 (190mm high)                                                                                                                                                                                                                                                         | No. | 5 |  |  |
| 4,5  | F5/F6 (190mm high)                                                                                                                                                                                                                                                           | No. | 2 |  |  |
| 4,6  | F13 (190mm high)                                                                                                                                                                                                                                                             | No. | 2 |  |  |
| 4,70 | F30 (190mm high)                                                                                                                                                                                                                                                             | No. | 4 |  |  |
|      |                                                                                                                                                                                                                                                                              |     |   |  |  |
|      | <b>Total to Summary Page</b>                                                                                                                                                                                                                                                 |     |   |  |  |
|      | <b>vat 15%</b>                                                                                                                                                                                                                                                               |     |   |  |  |
|      | <b>Grand Total</b>                                                                                                                                                                                                                                                           |     |   |  |  |

| ITEM | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UNIT | QTY | RATE | AMOUNT |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
|      | <p><b><u>SECTION NO. 5</u></b><br/> <b><u>BILL NO. 3</u></b><br/> <b><u>PLUMBING AND DRAINAGE</u></b></p> <p>All rates supplied in this Bill of Quantities will be deemed to include scaffolding to any height and fixing of cold and hot water pipes up to and including roof height. All pipes suspended from concrete slabs, roof, ceiling, etc. shall be deemed to include in the rates, all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab. For the complete supply, delivery and installation of supply piping, as specified, piping to include piping between geysers on roof. All cold and hot water pipes are to be chased into walls except where pipes are to be surface-mounted on wall face or run in ceiling voids or inside ducts, and fixed with standard type pipe saddlers and brackets at 1000mm maximum.</p> <p><b>HOT &amp; COLD WATER PIPING</b></p> <p>Hard drawn copper pipes to SANS 460 and SANS 1067 with capillary type soldered joints to SANS 1067 done in accordance with the manufacturer's specifications, and installed in accordance with SANS 10400 and SANS 10252-1:2004, including couplers in the running length, and all necessary supports, fixing, brackets, saddlers, holderbats, etc, and colour-coded in accordance with SANS 10140-3:2003: Straight hot water copper piping not chased in walls but surface-mounted fixed to walls, or in ceiling voids or in service ducts are to be insulated with thermaflex material, clad in 0,5mm galvanised muffs secured with 10mm galvanised strapping and seal, throughout the length of pipe inclusive of fittings. Valves, strainers and flanges will not be insulated.</p> |      |     |      |        |
| 1    | <b>PIPING - COPPER</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |      |        |
| 1.1  | Ø28mm pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m    | 60  |      |        |
| 1.2  | Ø22mm pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m    | 32  |      |        |
| 1.3  | Ø15mm pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | m    | 30  |      |        |
| 2    | <b>FITTINGS</b><br>Extra over copper pipework for capillary type soldered fittings                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |     |      |        |
| 2.1  | Ø28mm Equal T-piece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No   | 2   |      |        |
| 2.2  | Ø22mm Equal T-piece                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No   | 8   |      |        |
| 2.3  | Ø28mm Elbow: 90°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No   | 4   |      |        |
| 2.4  | Ø22mm Elbow: 90°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No   | 8   |      |        |
| 2.5  | Ø15mm Elbow: 90°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No   | 45  |      |        |
| 2.6  | Reducer: Ø28mm x Ø22mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No   | 2   |      |        |
| 2.8  | Reducer: Ø28mm x Ø15mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No   | 0   |      |        |
| 2.9  | Reducer: Ø22mm x Ø15mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No   | 15  |      |        |

|                 |                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |  |  |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----|--|--|
| 2.10            | Pipe clamps and hangers                                                                                                                                                                                                                                                                                                                                                                         | Sum | 1  |  |  |
| 2,11            | Hot water pipe insulation                                                                                                                                                                                                                                                                                                                                                                       | Sum | 1  |  |  |
| 3               | <b>VALVES - COPPER</b>                                                                                                                                                                                                                                                                                                                                                                          |     |    |  |  |
| 3.1             | Ø25mm isolating ball valve with lever on cold and hot water main pipes                                                                                                                                                                                                                                                                                                                          | No  | 1  |  |  |
| 3.2             | Ø20mm isolating ball valve with lever on cold and hot water main pipes                                                                                                                                                                                                                                                                                                                          | No  | 2  |  |  |
| 3.3             | Flexible connector to sanitary fittings                                                                                                                                                                                                                                                                                                                                                         | No  | 45 |  |  |
| 3.4             | 15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink                                                                                                                                                                                                                                                                                                     | No  | 15 |  |  |
| 4               | <b>ELECTRIC GEYSER</b>                                                                                                                                                                                                                                                                                                                                                                          |     |    |  |  |
| 4.1             | Supply and install a vertical electric water geyser , mounted in ceiling void, complete with copper piping, pressure control valves, draincock, vaccum breakers, thermostat, expansion relief valve, strainers, lever ball valves, drip tray, hot water pipe insulation, mixing valve and all neccesary accesories and ftings, as specified<br><br>Capacity: 150 litres<br>Element Rating: 3 kW | Set | 1  |  |  |
| 5               | Instant boiling water heater unit with White Epoxy Powder Coated outer case, and a two-way tap, complete with twin-chamber technology. Unit to be installed in accordance with manufacturer's installation instruction manual and (optional) equipped with Water Filtration Kit.<br>Capacity: 15 litres                                                                                         | Set | 1  |  |  |
| 5,1             | Element Rating: 1.5 kW                                                                                                                                                                                                                                                                                                                                                                          |     |    |  |  |
| 6               | <b>STORAGE TANKS</b>                                                                                                                                                                                                                                                                                                                                                                            |     |    |  |  |
| 6,1             | Supply and install a 1 000 litres vertical Jojo pvc tank mounted on a concrete plinth and install complete with all valve accessories.                                                                                                                                                                                                                                                          | Sum | 1  |  |  |
| 6,2             | Allow for connection of the Jojo tank to the water reticulation for domestic use.                                                                                                                                                                                                                                                                                                               | Sum | 1  |  |  |
| 6,3             | 1.5 l/s @ 4.5 bars domestic water pumps duty and standby are required to be installed complete with the necessary suction/ delivery pipework, valves, control equipment, pressure switches control panel and pressure vessel.                                                                                                                                                                   | Sum | 1  |  |  |
| <b>SUBTOTAL</b> |                                                                                                                                                                                                                                                                                                                                                                                                 |     |    |  |  |

| ITEM     | DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UNIT | QTY | RATE | AMOUNT |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|------|--------|
|          | <b><u>SECTION NO. 5</u></b><br><b><u>BILL NO. 3</u></b><br><b><u>PLUMBING AND DRAINAGE</u></b><br><br>These bills of quantities form part of and must be read in conjunction with the Technical Specifications and Drawings, which contain the full descriptions of the work to be done and material and equipment to be used. Unless otherwise described in these bills of quantities, reference should be made to the Technical Specifications for the full meaning of descriptions of work to be done and materials and equipment to be used in this service. All materials, equipment, fixings, brackets, etc, are to be supplied by the Contractor unless otherwise stated.<br><br><b>SANITARY DRAINAGE PIPING</b><br>Polyvinyl Chloride (PVC) pipe including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004 |      |     |      |        |
| 1        | <b>PIPING</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |     |      |        |
| 1.1      | Ø50mm uPVC pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | m    | 21  |      |        |
| 1.2      | Ø110mm uPVC pipe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | m    | 34  |      |        |
| 2        | <b>FITTINGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |
| 2.1      | Ø50mm fitting; 90°elbow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No   | 21  |      |        |
| 2.2      | Ø110mm fitting; 90°elbow                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No   | 26  |      |        |
| 2.3      | Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | No   | 8   |      |        |
| 2.4      | Ø50mm vent one way valve                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | No   | 6   |      |        |
| 2.5      | Ø110mm x Ø50mm fitting; concentric reducer                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No   | 8   |      |        |
| 3        | <b>WASTE TRAPS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |     |      |        |
| 3.1      | 40mm flexi rubber "P" trap complete with coupling clamps.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | No   | 7   |      |        |
| 4        | <b>AS BUILT DRAWINGS</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      |     |      |        |
| 4.1      | Submission of 3off 'As Built' drawings indicating the final positioning and layout of the entire sanitary drainage installation as installed on site by the Contractor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Sum  | 1   |      |        |
| 5        | Stripping of existing plumbing and drainage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Sum  | 1   |      |        |
| 6<br>6,1 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |
|          | <b>SUBTOTAL</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |      |        |
|          | <b>TOTAL CARRIED FORWARD TO SUMMARY</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |     |      |        |

**PRASA LONGDALE STATION MECHANICAL PROVISIONAL BOQ**

**SUMMARY**

| <b>Item</b>          | <b>Description</b>    | <b>Cost</b> |
|----------------------|-----------------------|-------------|
| 1                    | HVAC                  |             |
| 2                    | Fire Installation     |             |
| 3                    | Plumbing and Drainage |             |
| VAT @ 15%            |                       |             |
| <b>Total Inc VAT</b> |                       |             |

## **SECTION NO.6 : ELECTRONICS**

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

[illegible]

| PRASA LONGDALE STATION ELECTRONICS PROVISIONAL BOQ |                                            |      |     |      |            |
|----------------------------------------------------|--------------------------------------------|------|-----|------|------------|
| FIRE DETECTION                                     |                                            |      |     |      |            |
| Item                                               | Description                                | Unit | QTY | Cost | Total Cost |
|                                                    |                                            |      |     |      |            |
|                                                    | <b>Fire Detection</b>                      |      |     |      |            |
| 1                                                  | Addressable Smoke Detectors                | Lot  | 15  |      |            |
| 2                                                  | Addressable Smoke Detectors + Void LED     | Lot  | 10  |      |            |
| 3                                                  | Addressable Heat Detectors                 | Lot  | 2   |      |            |
| 4                                                  | Addressable Manual Call Point (Breakglass) | Lot  | 5   |      |            |
| 5                                                  | Addressable Relay Unit                     | Lot  | 2   |      |            |
| 6                                                  | Addressable Loop Beacon                    | Lot  | 3   |      |            |
| 7                                                  | Addressable Loop Sounder                   | m    | 3   |      |            |
| 8                                                  | Power Supply 24V                           | Lot  | 2   |      |            |
| 9                                                  | Fire Cables - PH30/30 minutes rated        | m    | 700 |      |            |
| 10                                                 | Fire Cables - PH120/120 minutes rated      | m    | 100 |      |            |
| 11                                                 | 4 Loop Fire Panel                          | Lot  | 1   |      |            |
| 12                                                 | Installation & Commissioning               | Lot  | 1   |      |            |
| <b>Total Ex VAT</b>                                |                                            |      |     |      |            |

# PRASA LONGDALE STATION ELECTRONICS PROVISIONAL BOQ

## EQUIPMENT

| Item                | Description                                                                                                                                                                                                                        | Unit | QTY  | Cost | Total Cost |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------------|
|                     |                                                                                                                                                                                                                                    |      |      |      |            |
|                     | <b>Equipment</b>                                                                                                                                                                                                                   |      |      |      |            |
| 1                   | Digital Voice Evac/PA System compliant with Prasa Railcom System complete with 32 x 30W Outdoor Speakers and all mounting Brackets. Include 43U Mounting Rack                                                                      | No   | 1    |      |            |
| 2                   | 5M steel Mounting poles complete with 2 m Stubs for mounting of Voice Evac/PA System Speakers                                                                                                                                      | Lot  | 16   |      |            |
| 3                   | PH30 Voice Evacuation Cabling including IP66 Rated Junction Boxes                                                                                                                                                                  | m    | 4200 |      |            |
| 4                   | Integration of Detection System with other Services/System - Engineer AutoFill                                                                                                                                                     | No   | 1    |      |            |
| 5                   | Alarm System complete with 6 x panic buttons - Ticket Office - Engineer Autofill                                                                                                                                                   | Lot  | 1    |      |            |
| 6                   | Ticket Office Counter Inductive Loop complete with goose neck counter top microphone, driver, amplifier and signage in compliance with IEC60118-4:2014. Loop to be in PVC Conduit in floor screed under tiling where client stands | Lot  | 1    |      |            |
| 7                   | Intrusion Detection System with Infrared Motion sensors in Ticket Offices complete with 8 zone control panel, Led Keypad with Battery Backup, 6 x panic Buttons and Internal Siren                                                 | Lot  | 1    |      |            |
| <b>Total Ex VAT</b> |                                                                                                                                                                                                                                    |      |      |      |            |

# PRASA LONGDALE STATION ELECTRONICS PROVISIONAL BOQ

## SUMMARY

| Item                 | Description    | Cost |
|----------------------|----------------|------|
| 1                    | Fire Detection |      |
| 2                    | Equipment      |      |
| Sub Total Ex VAT     |                |      |
| VAT @ 15%            |                |      |
| <b>Total Inc VAT</b> |                |      |

## **SECTION NO.7 : ACCESS CONTROL**

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

[illegible]

| PROVISIONAL BOQ NALEDI STATION |                                      |     |      |            |
|--------------------------------|--------------------------------------|-----|------|------------|
| PRELIMINARY AND GENERAL        |                                      |     |      |            |
| Item                           | Description                          | QTY | Cost | Total Cost |
| 1                              | Tansport - Supply separate breakdown | 1   |      |            |
| 2                              | Labour Monday -Friday- Rate Only     | 60  |      |            |
| 3                              | Delivery of turnstile                | 1   |      |            |
| 4                              | Brownfield Fees                      | 1   |      |            |
| Total Ex VAT                   |                                      |     |      |            |

| PROVISIONAL BOQ NALEDI STATION |                                      |     |      |            |
|--------------------------------|--------------------------------------|-----|------|------------|
| CABLING                        |                                      |     |      |            |
| Item                           | Description                          | QTY | Cost | Total Cost |
| 1                              | Connector - RJ 45 for CAT 5          | 100 |      |            |
| 2                              | Server Racks Cabinets 42U - Lockable | 2   |      |            |
| 3                              | Connector Boot - RJ45 Grey           | 100 |      |            |
| 4                              | Cable - CAT 6E U/UTP BC 500m         | 4   |      |            |
| 5                              | Cable CAT6E UTP 0.57mm Solid Copper  | 1   |      |            |
| <b>Total Ex VAT</b>            |                                      |     |      |            |

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-------------------|
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| <b>PROVISIONAL BOQ NALEDI STATION</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
|                                       | <b>EQUIPMENT</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |            |             |                   |
| <b>Item</b>                           | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>QTY</b> | <b>Cost</b> | <b>Total Cost</b> |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 1                                     | AI IR Dome Network Camera,8MP, 1/2.8" CMOS image sensor, low illuminance, 8MP (3840 × 2160) @20 fps H.265 codec, high compression rate, low bit rate· Built-in IR LED, max. IR distance: 50 m· ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments· Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes· Intelligent detection: Intrusion, tripwire (Recognition of vehicle and human)· Supports max. 256 G Micro SD card, built-in Mic· 12V DC/POE power support· IP67 protection· SMD | 60         |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 2                                     | 2MP 25x 100m IR PTZ Network Camera with Smart Video Analytics IVS + Alarm + Audio >1/2.8" 2Megapixel CMOS· Powerful 25x optical zoom· Starlight technology· Max. 50/60fps@1080P· Support PoE+· IR distance up to 100m· SMD· IP66                                                                                                                                                                                                                                                                                                                                                        | 12         |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 3                                     | NVR 32 Ch 16 PoE 4K AI+SMD+ANPR. Rack mounted complete with all relevant Software                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 2          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 5                                     | Surveillance Hard Drive 6TB.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 6                                     | Rack Mountable 10KVA UPS complete with 1 hour full load capacity on non corrosive batteries - 1 duty and other standby                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 7                                     | 55 Inch HD Monitor Wall Mounted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 8                                     | 16 Port 10/100 Managed PoE + 2GB TP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 9                                     | IP Based Intercomm System - PC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 10                                    | Anti Vandal Bespoke Solid Steel Poles                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 4          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 11                                    | Full height, bi directional single turnstile - Single turnstile - Polyester exterior grade powder cost - charcoal blue - Fail Secure                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 3          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 12                                    | Biometric/fingerprint reader mounting bracket - Polyester exterior grade powder coat - charcoal blue                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 6          |             |                   |
|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |             |                   |
| 13                                    | Battery backup 24 Volt DC with 12V rechargeable batteries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3          |             |                   |

|    |                                                                                                                                     |   |  |  |
|----|-------------------------------------------------------------------------------------------------------------------------------------|---|--|--|
| 14 | LED indicator lights (red and green - 80mm diameter) for full height turnstile - 2 units, one for entry and one for exit            | 3 |  |  |
|    |                                                                                                                                     |   |  |  |
| 15 | Security gate 970mm wide x 2 125mm high - mortice lock (843mm clear opening) - Polyester exterior grade powder coat - charcoal blue | 1 |  |  |
|    |                                                                                                                                     |   |  |  |
|    |                                                                                                                                     |   |  |  |
|    | <b>Total Ex VAT</b>                                                                                                                 |   |  |  |

| PROVISIONAL BOQ NALEDI STATION |                         |      |
|--------------------------------|-------------------------|------|
| SUMMARY                        |                         |      |
| Item                           | Description             | Cost |
| 1                              | P & G                   |      |
| 2                              | Cabling - Building Cost |      |
| 3                              | Equipment               |      |
| Sub Total Ex VAT               |                         |      |
| Vat @ 15%                      |                         |      |
| <b>Total Inc VAT</b>           |                         |      |

## Refurbishments and Upgrades to Longdale Train Station Prasa South Gauteng Region Corridor 3

| Section No                        | SUMMARY OF SECTIONS                 |
|-----------------------------------|-------------------------------------|
|                                   |                                     |
| 1                                 | Preliminaries                       |
| 2                                 | Building Work                       |
| 3                                 | Civil Work                          |
| 4                                 | Electrical Work                     |
| 5                                 | Mechanical Work                     |
| 6                                 | Electronics                         |
| 7                                 | Access Control                      |
|                                   | Sub Total                           |
|                                   | <b>CONTINGENCY</b>                  |
|                                   | ADD: Construction Contingency (10%) |
|                                   | ADD: Value added Tax at 15%         |
|                                   |                                     |
|                                   |                                     |
|                                   |                                     |
|                                   |                                     |
|                                   |                                     |
|                                   |                                     |
|                                   |                                     |
|                                   | TOTAL CARRIED TO FORM OF TENDER     |
| Contract<br>Part C2: Pricing Data |                                     |