

**PROVISIONAL BILLS OF QUANTITIES**

**FOR**

**REFURBISHMENTS AND UPGRADES TO INHLAZANE TRAIN STATION**

**AT**

**SOWETO, JOHANNESBURG**

**Aug-22**

# **SECTION NO.1 : PRELIMINARIES**

Item No	Quantity	Rate	Amount R
<p><b><u>SECTION NO. 1</u></b></p> <p><b><u>PRELIMINARIES AND GENERAL</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <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
<p>Section No. 1 Preliminaries Contract Part C2: Pricing Data</p>			

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**Interpretation (A1-A7)**

1 Clause 1.0 - Definitions and interpretation  
2 Clause 2.0 - **Law**, regulations and **notices**

Item

Item

3 Clause 3.0 - Offer and acceptance  
F:..... V:.....  
T:.....

Item

4 Clause 4.0 - Cession and assignment  
F:..... V:.....  
T:.....

Item

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:.....

Item

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

8 Clause 8.0 - **Works** risk  
F:..... V:.....  
T:.....

Item

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9	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item	
10	<p>Clause 10.0 - Insurances</p> <p>F:..... V:..... 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:..... T:.....</p>	Item	
13	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>	Item	
14	<p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>	Item	
15	<p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:..... 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>		
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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:..... T:.....</p>			
17	<p><b>Clause 17.0 - 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:..... T:.....</p> <p><b><u>Completion (A18 - A24)</u></b></p>			
18	Clause 18.0 - Interim completion		N/A	
19	<p><b>Clause 19.0 - Practical completion</b></p> <p>F:..... V:..... T:.....</p>			
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:..... T:.....</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:..... T:.....</p>	Item		
24	<p>Clause 24.0 - <b>Penalty</b> for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p><b>Payment (A25 - A27)</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:..... 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>			
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27	<p>Clause 27.0 - Recovery of expense and/or loss</p> <p>F:..... V:..... T:.....</p>	Item	R
<b><u>Suspension and termination (A28 - A29)</u></b>			
28	<p>Clause 28.0 - Suspension by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item	
29	<p>Clause 29.0 - Termination</p> <p>F:..... V:..... T:.....</p>	Item	
<b><u>Dispute resolution (A30)</u></b>			
30	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... 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:..... T:.....</p>	Item	
32	<p><b><u>Contract data</u></b></p> <p>F:..... V:..... T:.....</p>	Item	
<b><u>SECTION B: GENERAL PRELIMINARIES</u></b>			
<b><u>Definitions and interpretation (B1)</u></b>			
33	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	Item	
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34	Clause 1.2 - Interpretation F:..... V:..... T:.....	Item
<b><u>Documents (B2)</u></b>		
35	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item
36	Clause 2.2 - Provisional <b>bills of quantities</b> F:..... V:..... T:.....	Item
37	Clause 2.3 - Availability of <b>construction information</b> F:..... V:..... T:.....	Item
38	Clause 2.4 - Ordering of <b>materials and goods</b> F:..... V:..... T:.....	Item
<b><u>Previous work and adjoining properties (B3)</u></b>		
39	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item
40	Clause 3.2 - Previous work - <b>defects</b> F:..... V:..... T:.....	Item
41	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item

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<b><u>The site (B4)</u></b>				
42	Clause 4.1 - Handover of <b>site</b> in stages F:..... V:..... T:.....	Item		
43	Clause 4.2 - Enclosure of the <b>works</b>	Item		
44	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item		
45	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item		
46	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....	Item		
47	Clause 4.6 - Services - known F:..... V:..... T:.....	Item		
<b><u>Management of contract (B5)</u></b>				
48	Clause 5.1 - Management of the <b>works</b> F:..... V:..... T:.....	Item		
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item		
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**Samples, shop drawings and manufacturer's instructions (B6)**

51 Clause 6.1 - Samples of materials  
F:..... V:.....  
T:.....

Item

52 Clause 6.2 - Workmanship samples  
F:..... V:.....  
T:.....

Item

53 Clause 6.3 - Shop drawings  
F:..... V:.....  
T:.....

Item

54 Clause 6.4 - Compliance with manufacturer's instructions  
F:..... V:.....  
T:.....

Item

**Deposits and fees (B7)**

55 Clause 7.1 - Deposits and fees  
F:..... V:..... T:.....

Item

**Temporary services (B8)**

56 Clause 8.1 - Water  
F:..... V:.....  
T:.....

Item

57 Clause 8.2 - Electricity  
F:..... V:.....  
T:.....

Item

58 Clause 8.3 - Ablution and welfare facilities  
F:..... V:.....  
T:.....

Item

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59	Clause 8.4 - Communication facilities			
	F:..... V:..... T:.....	Item		
	<b><u>Prime cost amounts (B9)</u></b>			
60	Clause 9.1 - Responsibility for <b>prime cost amounts</b>			
	<b><u>Attendance on subcontractors (B10)</u></b>			
61	Clause 10.1 - General attendance			
	<b><u>User note</u></b>			
	<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>			
	F:..... V:..... T:.....	Item		
62	Clause 10.2 - Special attendance			
63	Clause 11.1 - Protection of the <b>works</b>			
	F:..... V:..... T:.....	Item		
64	Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b>			
	F:..... V:..... T:.....	Item		
65	Clause 11.3 - Security of the <b>works</b>			
	F:..... V:..... T:.....	Item		
66	Clause 11.4 - Notice before covering work			
	F:..... V:..... T:.....	Item		
67	Clause 11.5 - Disturbance			
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68 Clause 11.6 - Environmental disturbance  
69 Clause 11.7 - **Works** cleaning and clearing

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

Item

70 Clause 11.8 - Vermin

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

Item

71 Clause 11.9 - Overhand work

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

Item

72 Clause 11.10 - Tenant installations

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

Item

73 Clause 11.11 - Advertising

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

Item

**SECTION C: SPECIFIC PRELIMINARIES**

74 **Site instructions**

**Contract Instructions** issued on **site** are to be recorded in triplicate in a **site** instruction book which is to be maintained on site by the **contractor**

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

Item

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75 **Warranties for material and workmanship**

Where warranties for materials and/or workmanship are called for, the **contractor** shall obtain a written warranty, addressed to the **employer**, from the firm supplying the materials and/or doing the work and shall deliver same to the **principal agent** on the **final completion** of the **contract**. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of **final completion** and that any **defects** 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 **defects** in the construction of the building in which case the responsibility for replacement shall rest entirely with the **contractor**

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

Item

76 **Co-operation of contractor for cost management**

It is specifically agreed that the **contractor** accepts the obligation of assisting the **principal agent** in implementing proper cost management. The **contractor** will be advised by the **principal agent** of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The **principal agent** undertakes to make available to the **contractor** all **budgetary allowances** and cost assessments/reports to enable the proper procedure to be implemented and the **contractor** shall attend all cost plan review and cost management meetings. The **contractor** undertakes to extend these procedures, as necessary, to all subcontractors

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

Item

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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

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**HIV/AIDS AWARENESS**

It is required of the Contractor to thoroughly study the HIV/AIDS Specification 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:.....

Item

**Carried to Collection**

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Section No. 1  
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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:.....

Item

**Carried to Collection**

R

Section No. 1  
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84 **MONITORING**

Monitoring HIV/AIDS awareness of workers, providing the **principal agent** 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.

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

Item

**SOCIO-ECONOMIC DELIVERABLES**

85 It is required that the contractor shall adhere to all Socio-Economic Deliverables.

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

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

Item

**EMPLOYMENT OF SMME SUB-CONTRACTORS AS A CONDITION OF TENDER**

86 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

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

F:..... V:..... T:.....N/A

Item

**Carried to Collection**

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**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, 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:.....

Item

**Carried to Collection**

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Section No. 1  
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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

**Carried to Collection**

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**SUMMARY OF CATEGORIES**

Category: Fixed R

Category: Value R

Category: Time R

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

Section No. 1		
Preliminaries		
Bill No. 1		
Preliminaries		
<b><u>COLLECTION PAGE</u></b>		
	<b>Page No</b>	<b>Amount 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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Total Brought Forward from Page No.	17	
Total Brought Forward from Page No.	18	
Total Brought Forward from Page No.	19	
<b>Carried to Final Summary</b>		R
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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>			
<b>Carried to Collection</b>			R
Section No. 2 Alterations Contract Part C2: Pricing Data			

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 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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Alterations  
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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

**Carried to Collection**

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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

**DEMOLITIONS ETC**

**Taking down and removing**

1	Concrete palisade fence approximately 2.4m high	m	81	
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**Demolishing and removing**

2	Single storey building with flat roof, approximate size 7.64 x 5.14m on plan and 3m high overall, comprising unreinforced concrete surface bed, reinforced concrete roof slab	No	1	
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3	Single storey building with flat roof, approximate size 5.14 x 4.34m on plan and 2.4m high overall, comprising unreinforced concrete surface bed, reinforced concrete roof	No	1	
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4	Single storey building with flat roof, approximate size 6.64 x 6.44m on plan and 3.0m high overall, comprising unreinforced concrete surface bed, reinforced concrete roof	No	1	
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5	Single storey building with timber pitched roof approximate size 5.24 x 4.24m on plan and 3.0m high overall comprising one brick external walls, Steel security grills on two sides , and roof sheeting timber trusses (Ticket checkpoints)	No	4	
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6	Single storey building with timber pitched roof approximate size 13.14 x 6.94m on plan and 3.0m high overall comprising concrete surface beds, brick walls, and roof sheeting timber trusses	No	1	
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7	One brick yard walls 1.8m high	m	14	
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<b><u>Breaking up and removing</u></b>					
8	150mm Thick mesh reinforced concrete surface beds, paving, etc	m <sup>2</sup>	238		
<b><u>REMOVAL OF EXISTING WORK</u></b>					
<b><u>Taking up and removing pavers, etc</u></b>					
9	Concrete pavers laid loose on compacted subbase	m <sup>2</sup>	20		
<b><u>Take off and remove doors from existing frames including preparing frame to receive new door leaves (elsewhere measured)</u></b>					
10	Timber single door not exceeding 2,5m2	No	23		
<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u></b>					
11	Corrugated iron roof covering and timber purlins, inspect and repair roof trusses to receive new covering.	m <sup>2</sup>	2 858		
12	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m <sup>2</sup>	255		
<b><u>Taking out and removing sundry joinery work</u></b>					
13	Timber skirtings from brickwork	m	24		<b>Rate Only</b>
<b><u>Taking out and removing joinery fittings etc</u></b>					
14	Timber kitchen sink cupboard approximately 1000 x 600 x 890mm high	No	1		
<b><u>Taking up and removing vinyl floor coverings, carpeting, etc</u></b>					
15	Carpet floor covering including preparing screed for new floor covering	m <sup>2</sup>			<b>Rate Only</b>
<b><u>Take off and remove existing ironmongery from doors, including making good and prepare to receive new ironmongery (elsewhere measured)</u></b>					
16	Mortice lockset complete with handles from timber door	No	1		
17	Door closer from timber door	No			<b>Rate Only</b>
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**Refurbishments and Upgrades to Inhlazane Train Station  
Prasa South Gauteng Region Corridor 3**

<b><u>Taking out and removing ironmongery</u></b>				
18	Stainless steel toilet roll holder	No	17	
19	Paper towel dispenser	No	6	
20	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>				
21	30mm Thick screed from floors	m <sup>2</sup>		<b>Rate only</b>
<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>				
22	Tiles to floors	m <sup>2</sup>	362	
23	Tiles to walls	m <sup>2</sup>	130	
24	Tile skirting	m	411	
<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>				
25	Stainless steel single bowl sink	No	5	
26	Vitreous china wash hand basin	No	17	
27	Vitreous china WC pan with cistern	No	17	
28	Vitreous china wall mounted urinal	No	6	
29	Paraplegic grab and flush rails	No	4	
30	Floor drain	No	10	
<b><u>Taking out and removing glass and mirrors</u></b>				
31	Glass from steel windows including cleaning out rebates and preparing for new glass	m <sup>2</sup>	2	
32	Mirror size 450 x 600mm high from wall	No	13	
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**Refurbishments and Upgrades to Inhlazane Train Station  
Prasa South Gauteng Region Corridor 3**

<b><u>Taking out and removing street furniture:</u></b>				
33	Steel bins	No	13	
<b><u>Repairing and painting street furniture:</u></b>				
34	Steel seats	No	16	
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>				
35	Making good defects in existing screeded floors with an approved cementious compound	m <sup>2</sup>		<b>Rate Only</b>
<b><u>REPAIRING PLASTER</u></b>				
<b><u>Prepare and apply 3:1 plaster admixture as described</u></b>				
36	On brick walls	m <sup>2</sup>		<b>Rate Only</b>
37	On narrow widths	m <sup>2</sup>		<b>Rate Only</b>
<b><u>CONCRETE CRACK REPAIRS</u></b>				
<b><u>Prepare cracked concrete surfaces as described and apply two component epoxy putty</u></b>				
38	On soffits of slabs	m <sup>2</sup>		<b>Rate Only</b>
<b><u>CLEANING OF WALLS</u></b>				
<b><u>Cleaning of surfaces</u></b>				
39	Sandblasting painted brick surfaces	m <sup>2</sup>		<b>Rate Only</b>
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**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)**

40	Roof with a pitch not exceeding 25 degrees	m <sup>2</sup>	473
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**SERVICE AND REPAIR**

**Inspect and service/repair**

41	Roller shutter door 2700 x 2900mm high including ironmongery	No	6
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42	Roller shutter door 4000 x 2400mm high including ironmongery	No	4
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43	Roller shutter door 1400 x 2400mm high including ironmongery	No	8
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44	Single gate size 900 x 210mm high including ironmongery	No	1
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**Inspect, repair and clean and paint existing steel roof structure**

45	Steel roof overall size 76.60m x 11.6m on plan	No	2
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46	Steel roof overall size 46.51m x 11.6m on plan	No	2
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	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>WATERPROOFING</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>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</p> <p style="text-align: center;">-----</p> <p><b><u>WATERPROOFING TO FLAT SCREEDED ROOFS</u></b></p> <p><b><u>Two layers of 4mm thick Torch-on polyester based sheeting inclusive of additional membrane dressing around fullbores, pipes, etc</u></b></p>			
47	On flat roofs	m <sup>2</sup>	150	
	<p><b><u>PROTECTIVE ROOFING PAINT</u></b></p> <p><b><u>Two coats bituminous aluminium paint</u></b></p>			
48	On waterproofing to roofs	m <sup>2</sup>	150	
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	Section No. 2 Waterproofing 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>ROOF COVERINGS ETC</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>Straight cutting</u></b></p> <p>Descriptions of all roof coverings are deemed to include for all straight cutting</p> <p style="text-align: center;">-----</p> <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p> <p><b><u>0.58mm Z275 spelter galvanised ribbed sheet steel with chromadek finish on one side in single lengths and accessories, fixed to steel purlins using approved clips and fasteners all in accordance with manufacturer's recommendations and specifications.</u></b></p>			
49	Roof covering with pitch not exceeding 25 degrees	m <sup>2</sup>	2 858	
50	Ridge covering 462mm girth	m	246	
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	Section No. 2 Roof Coverings Contract Part C2: Pricing Data			

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<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 4</u></b></p> <p><b><u>CARPENTRY AND JOINERY</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>Plate nailed timber roof truss construction</b></p> <p>The following is applicable in respect of roof trusses:</p> <p>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</p> <p><b>Joinery</b></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><b>Fixing</b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><b>Decorative laminate finish</b></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Carpentry and Joinery Contract Part C2: Pricing Data</p>			R

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**SKIRTINGS**

**Wrought meranti**

51	20 x 120mm Skirtings	m	24		
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**DOORS, ETC**

**Semi-solid flush panel door with concealed hardwood edges and commercial veneer on both sides, hung to steel frames**

52	44mm Thick single door size 813 x 2100mm high	No	9		
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53	44mm Thick double door size 915 x 2100mm high	No	12		
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**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)**

54	44mm Thick single door size 915 x 2100mm high	No	1		
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**JOINERY FITTINGS**

**Budgetary Allowance**

55	Provide a sum of R75000.00 (Seventy Five Thousand Rand) for joinery installations			Item	
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Carpentry and Joinery

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<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 5</u></b></p> <p><b><u>CEILING, 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 style="text-align: center;">-----</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 2 Ceilings, Partitions and Access Flooring Contract Part C2: Pricing Data</p>			R

<b><u>CEILING, ETC</u></b>					
<b><u>Approved insulation</u></b>					
56	50mm Insulation closely fitted and laid on top of branderling between roof timbers, etc	m <sup>2</sup>	255		
<b><u>SUSPENDED CEILING</u></b>					
<b><u>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.</u></b>					
57	Horizontal ceilings, including 38 x 38mm sawn softwood branderling at 450mm centres	m <sup>2</sup>	122		
<b><u>1200 x 600 x 15mm biologically absorbable mineral wool fire rated ceiling tiles, with square-edge and white painted finish, laid on fire rated exposed 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</u></b>					
58	Horizontal ceilings suspended not exceeding 1m below timber or steel soffits	m <sup>2</sup>	133		
<b><u>Cornices to suspended ceilings</u></b>					
59	Pre-painted cornices, nailed and plugged	m	436		
<b><u>PARTITIONS</u></b>					
<b><u>Budgetary Allowance</u></b>					
60	Provide a sum of R15 0000.00 (Fifteen thousand Rand) for partitioning		Item		
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 Ceilings, Partitions and Access Flooring

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	<b><u>BILL NO. 6</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			
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	<b><u>FLOOR COVERINGS</u></b>			
	<b><u>100% Stainproof (Polypropylene) structured needlepunch with class 3 fire rating, heavy commercial carpet tiles, size 500 x 500 x 8,5mm thick, all installed by approved installer</u></b>			
61	On floors	m <sup>2</sup>	30	
	<b><u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u></b>			
62	Natural anodised aluminium edge strips between different floor finishes	m	2	
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	Section No. 2 Floor Coverings and Wall Linings Contract Part C2: Pricing Data			

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	<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 7</u></b></p> <p><b><u>IRONMONGERY</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>Finishes to ironmongery</u></b></p> <p>Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <p><b><u>NOTE:</u></b></p> <p><b><u>ALL LOCKS TO BE ON A MASTER AND GRAND MASTER KEY SYSTEM</u></b></p> <p style="text-align: center;">-----</p> <p><b><u>HINGES, BOLTS, ETC</u></b></p> <p><b><u>Grade 304 Stainless steel</u></b></p>			
63	WC indicator bolt	No	9	
64	Disabled indicator bolt, fixed to surface with matching stainless steel screws.	No	2	
	<b>Carried to Collection</b>			R
	Section No. 2 Ironmongery Contract Part C2: Pricing Data			

**LOCKS**

**Grade 304 Stainless steel**

65	Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel	No	12	
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**PUSH PLATES AND KICKING PLATES**

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

66	813 x 200mm Kick plate	No	18	
67	900 x 200mm Kick plate	No	23	

**HANDLES**

**Grade 304 Stainless steel**

68	Round D pull handle on 19 x 200 mm backplate	Pairs	12	
69	Round D pull handle on 19 x 300 mm backplate	Pairs	2	

**DOOR CLOSERS**

**Approved**

70	Approved delayed action door closer	No	1	
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**LETTERS, NAMEPLATES, ETC**

**Stainless steel**

71	152 x 152 x 2mm Thick engraved with female pictogram	No	3	
72	152 x 152 x 2mm Thick engraved with male pictogram	No	3	
73	152 x 152 x 2mm Thick engraved with paraplegic pictogram	No	3	
74	152 x 152 x 2mm Thick engraved with Unisex pictogram	No	2	

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**Refurbishments and Upgrades to Inhlazane Train Station  
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75	152 x 152 x 2mm Thick engraved with kitchen and breakroom pictogram	No	3		
76	152 x 152 x 2mm Thick engraved with cleaning store pictogram	No	2		
<b><u>SUNDRIES</u></b>					
<b><u>Approved</u></b>					
77	Stainless steel door stop	No	11		
78	Hat and coat hook	No	9		
<b><u>BATHROOM FITTINGS</u></b>					
79	Satin stainless steel recessed toilet roll holders for single or two rolls, plugged and screwed to the wall with stainless steel screws.	No	15		
80	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		
81	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	6		
82	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	2		
83	Satin stainless steel towel rings, plugged and screwed to the wall with stainless steel screws.	No	2		
84	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	8		
85	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	8		
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**Refurbishments and Upgrades to Inhlazane Train Station  
Prasa South Gauteng Region Corridor 3**

86	Satin stainless steel full automatic industrial hand dryer with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws. 2500 W motor with automatic power cut off after 90 second and a 5 year warranty.	No	8
87	Paraplegic Rails dog leg grab rail with 3 supports with brushed grade 304 stainless steel finish, overall size 750 x 750mm, plugged and screwed to wall with stainless steel screws.	No	2
88	Paraplegic Rails flush valve grab rail with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.	No	2

**VERTICAL LOUVRE BLINDS**

**Budgetary allowance**

89	Provide a sum of R30 000.00 (Thirty Thousand Rand) for Window blinds		Item
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**Refurbishments and Upgrades to Inhlazane Train Station  
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Bill of Quantities

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Ironmongery

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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>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 style="text-align: center;">-----</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>			
90	Single gate 900 x 2100mm high	No	2	
	<b>Carried to Collection</b>			R
	Section No. 2 Metalwork Contract Part C2: Pricing Data			

**ALUMINIUM /STEEL WINDOWS, ETC**

**Budgetary allowance**

91 Provide a sum of R 50 000.00 ( Fifty Thousand Rand) for new windows , shop fronts and grilles, tinting existing shop fronts, repairing and servicing of windows and burglar bars etc

Item

**STEEL RECORDROOM AND STRONGROOM DOORS, VENTILATORS, ETC**

**Level G3 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS angle rebates in powder coating and or galvanised cladding with peep hole, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and D-style pull handles. Door to comply to SABS 1658-1996**

92 Anti Bandit bullet resistant door and frame 920 x 2100mm high

No

1

**Level G2 bullet resistant Anti-bandit door, complete with 100 x 50 x 3mm gauge mild steel rectangular frame and 25 x 25 x 3mm MS angle rebates in powder coating and or galvanised cladding with peep hole, supplied with a 6 pin tumbler key system, mortice dead lock with an additional heavy duty magnetic lock and striker including key switch and surface mounted casing, 6 Amp power supply, push buttons and interlock system, heavy duty aluminium continuous hinge, aluminium slam bar with heavy duty door closer and D-style pull handles. Door to comply to SABS 1658-1996**

93 Anti Bandit bullet resistant door and frame 920 x 2100mm high

No

1

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R

Section No. 2  
Metalwork  
Contract  
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**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. Installation to include security roller shutter.**

94	Bullet resistant glass transaction window 750 x 1100mm high	No	1
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**RECYCLING BINS**

**Stainless steel furniture**

95	Recycling bin formed of GRC and stainless steel . Overall size 1010mm wide x 1140mm high.	No	2
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**Carried to Collection**

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Section No. 2  
Metalwork  
Contract  
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Section No. 2

Bill of Quantities

Bill No. 8

Metalwork

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Metalwork  
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. 9</u></b></p> <p><b><u>TILING</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>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</p> <p style="text-align: center;">-----</p> <p><b><u>WALL TILING</u></b></p> <p><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></p>			
96	On walls	m <sup>2</sup>	339	
97	On narrow widths	m <sup>2</sup>	3	
	<p><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></p>			
98	On walls in isolated panels, splashbacks, etc	m <sup>2</sup>	3	
	<b>Carried to Collection</b>			R
	Section No. 2 Tiling Contract 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**

99	On floors and landings	m <sup>2</sup>	332
100	Skirting 100mm high	m	411

**Carried to Collection**

R

Section No. 2  
Tiling  
Contract  
Part C2: Pricing Data

Section No. 2

Bill of Quantities

Bill No. 9

Tiling

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Section No. 2

Tiling

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. 10</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</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>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings unless hailguards are allowed for in the bills of quantities</p> <p><b><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></b></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><b><u>Waste unions</u></b></p> <p>Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings</p> <p><b><u>Sealing of edges</u></b></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p>			
<b>Carried to Collection</b>			R
<p>Section No. 2 Plumbing and Drainage Contract Part C2: Pricing Data</p>			

**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

**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

**Disinfection of water pipework**

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

**Carried to Collection**

R

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

**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

**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

**Carried to Collection**

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

**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)

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, gully 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"

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**Carried to Collection**

Section No. 2  
Plumbing and Drainage  
Contract  
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R

**SOIL AND STORMWATER DRAINAGE**

**Budgetary Allowances**

**Sewer**

101 Provide a sum of R50 000.00 (Fifty Thousand Rand) for replacing damaged and missing manhole covers and clearing pipe blockages

Item

**Stormwater**

102 Provide a sum of R100 000.00 (One Hundred Thousand Rand) for replacing damaged and missing manhole covers and clearing pipe and open drain blockages

Item

**SANITARY FITTINGS**

**1.6mm Stainless steel type 304 (18/10)**

103 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

5

**White glazed vitreous china**

104 Vitreous china top flush toilet suite comprising 90° outlet open rim pan with top flush cistern and flush mechanism and normal close seat

No

3

105 High quality non-corrosive 6/3 liter dual flush concealed cistern with inlet/outlet connector for floor mounted applications

No

14

106 Vitreous china approved security pan (Cistern measured elsewhere)

No

12

107 Vitreous china wall hung closed rim pan with soft close seat (Cistern measured elsewhere)

No

2

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

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

108	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	2		
109	Vitreous china drop-in vanity basin size 420 x 420mm fitted into opening in granite vanity top (elsewhere measured) and sealed with silicone sealant where basin rim meets vanity top.	No	3		
110	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	12		
111	Vandal Resistant Urinal with automatic flush sensors or manual flush valve	No	6		
	<b><u>WASTE UNIONS ETC</u></b>				
112	38mm Bath or sink waste union	No	5		
	<b><u>TRAPS ETC</u></b>				
113	40mm Deep seal "P" or "S" trap	No	5		
114	Chromium plated bottle trap	No	15		
	<b><u>Floor drain</u></b>				
115	Floor drain square brass including trap	No	4		
	<b><u>TAPS, VALVES, ETC</u></b>				
116	15mm ball type angle valve	No	17		
117	15mm Chrome plated single lever basin mixer with square type handles and cast fixed spout	No	3		
118	Chrome plated self-closing push button metering spout, pillar type with non-hold open feature for cold water only	No	12		
119	Medical elbow action pillar tap with high waist or equal approved, chrome finish	No	2		
	<b>Carried to Collection</b>				R
	Section No. 2 Plumbing and Drainage Contract Part C2: Pricing Data				

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

120	15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges	No	5		
121	15mm Ø BSP built-in sleeve, brass urinal flush valve with internal flow control, strainer and no-hold feature for single bowl urinal.	No	6		
<b>Carried to Collection</b>					R

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Section No. 2

Bill of Quantities

Bill No. 10

Plumbing and Drainage

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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>			
122	Panes not exceeding 0,1 m2	m <sup>2</sup>	2	
	<b><u>GLAZING TO WOOD WITH PINNED-ON BEADS</u></b>			
	<b><u>4mm Clear float glass</u></b>			
123	Panes exceeding 0,1m2 and not exceeding 0,5m2	m <sup>2</sup>		<b>Rate Only</b>
	<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>			
124	Mirror size 600 x 900mm high	No	12	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Glazing 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. 12</u></b></p> <p><b><u>PAINTWORK</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 paintwork shall be deemed to include for all cutting in</p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p>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</p> <p>Previously painted metal surfacesSurfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p>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</p> <p style="text-align: center;">-----</p>			
	<b>Carried to Collection</b>			R
	<p>Section No. 2 Paintwork Contract Part C2: Pricing Data</p>			

**PAINTWORK, ETC TO NEW WORK ON**

**WOOD SURFACES WITH:**

**One coat pink wood primer, one coat universal undercoat and two coats super universal high gloss enamel paint on**

125	Doors	m <sup>2</sup>	116
-----	-------	----------------	-----

**Three coats polyurethane suede varnish on**

126	Skirtings, rails, etc not exceeding 300mm girth	m	55
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**METAL SURFACES WITH**

**One coat multisurface primer and two coats gloss enamel paint on work in sound condition on steel**

127	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m <sup>2</sup>	4
-----	--	----------------	---

**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

**Carried to Collection**

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Section No. 2  
Paintwork  
Contract  
Part C2: Pricing Data



<b><u>ON SMOOTH CONCRETE</u></b>					
<b><u>Two coats modified acrylic fine textured emulsion paint on work in poor condition on</u></b>					
132	Concrete tables	m <sup>2</sup>	20		
<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>					
133	Door frames	m <sup>2</sup>	42		
134	On windows	m <sup>2</sup>	190		
135	On steel sections	m <sup>2</sup>	92		
136	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m <sup>2</sup>	23		
137	On handrails	m	64		
<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>					
138	On walkway and bridge balustrades (both sides measured over the full flat area)	m <sup>2</sup>	791		
<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>					
139	Roller shutter doors	m <sup>2</sup>	277		
<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>					
140	On profiled roof sheeting (measured on flat)	m <sup>2</sup>	473		
<b><u>WOOD SURFACES WITH:</u></b>					
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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:

141

Doors

m<sup>2</sup>

13

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Section No. 2  
Paintwork  
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Part C2: Pricing Data

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

Section No. 2

Bill of Quantities

Bill No. 12

Paintwork

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Paintwork

Contract

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	<b><u>BILL NO. 13</u></b>			
	<b><u>PROVISIONAL SUMS</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with the JBCC Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances			
	Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned			
	Provisional sums are for material and equipment supplied and installed complete by firms of specialists			
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	<b><u>PROVISIONAL AMOUNTS</u></b>			
	<b><u>COMMUNITY LIASON OFFICER</u></b>			
142	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
143	Allow for general attendance		%	
144	Allow for profit		%	
	<b>Carried to Collection</b>			
	Section No. 2 Provisional Amounts Contract Part C2: Pricing Data		R	

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

**EPWP TRAINING**

145	Allow the amount of R200,000.00 (Two Hundred Thousand Rand) 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	200 000.00
146	Allow for general attendance		%
147	Allow for profit		%

**BUDGETARY AMOUNTS**

**SIGNAGE**

148	Allow the amount of R50 000.00 (Fifty Thousand Rand) Station 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
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**PLATFORM BRIDGE AND STAIRCASE REPAIRS**

149	Allow the amount of R100 000.00 (One Hundred Thousand Rand) for repairing platform bridge and staircases to be used at the discretion of the Project Manager and deducted in whole or in part if not required	Item	100 000.00
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**HOLDING CELL**

150	Allow the amount of R55 000.00 (Fifty Five Thousand Rand) for provision of a holding cell to be used at the discretion of the Project Manager and deducted in whole or in part if not required	Item	55 000.00
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**Carried to Collection**

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Section No. 2  
Provisional Amounts  
Contract  
Part C2: Pricing Data

Section No. 2

Bill of Quantities

Bill No. 13

Provisional Amounts

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Section No. 2

Bill of Quantities

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8	Metalwork	49	
9	Tiling	52	
10	Plumbing and Drainage	60	
11	Glazing	61	
12	Paintwork	67	
13	Provisional Amounts	70	
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**SECTION NO.3 : CIVIL WORK**

Item No		Quantity	Rate	Amount R
	<p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PLATFORM RESURFACING</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>			
1	Asphalt from bridge surface	m <sup>2</sup>	215	
	<b>Carried to Collection</b>			R
	Section No. 3 Platforms Contract Part C2: Pricing Data			

**SURFACING**

**Asphalt road and parking surfacing**

2	50mm Thick continuously graded asphalt surfacing	m <sup>2</sup>	215
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**Prime coat**

3	MC-30 Cutback bitumen	m <sup>2</sup>	215
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**Tack coat**

4	30% Stable-grade emulsion	m <sup>2</sup>	215
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**PAVING ETC**

**300 x 300mm Tac-Pave in-situ system, yellow colour, applied to existing surfaces all in accordance to manufacturer's instructions.**

5	Paving to platform surfaces	m <sup>2</sup>	330
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**Carried to Collection**

R

Section No. 3  
Platforms  
Contract  
Part C2: Pricing Data

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

Section No. 3

Civil Work

Bill No. 1

Platforms

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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>			
6	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	26	
	<b>Carried Forward to Summary of Section No. 3</b>			R
	Section No. 3 Street Furniture Contract 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>PARKING AND KERBING</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</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>Precast concrete block road surfacing</u></b></p> <p>Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications</p> <p>Paving shall be laid to herringbone pattern on 20mm thick (thickness after final compaction) clean river sand (preparation of ground or filling elsewhere)</p> <p>Clean sand shall be swept into joints between roadstones at completion</p> <p style="text-align: center;">-----</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3 Roads and Paving Contract Part C2: Pricing Data</p>			R

<b><u>EARTHWORKS (BULK EXCAVATION, FILLING ETC)</u></b>					
<b><u>Excavation not exceeding 2m deep</u></b>					
7	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>	82		
<b><u>Extra over excavations for carting away</u></b>					
8	Surplus material from stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	82		
<b><u>Keeping excavations free of water</u></b>					
9	Keeping excavations free of water			Item	
<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>					
10	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>	27		
11	Subbase course under roads and parking compacted to 95% Mod AASHTO density (C4 material stabilized with approximately 3% Portland blast furnace cement with UCS to be 750KPa at 100% Mod AASHTO density)	m <sup>3</sup>	27		
12	Base course under roads and parking compacted to 85% apparent density (G2 graded crushed stone material)	m <sup>3</sup>	27		
<b><u>Compaction of surfaces</u></b>					
13	Compaction of ground surface (G7 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>	182		
<b>Carried to Collection</b>					R
Section No. 3 Roads and Paving Contract Part C2: Pricing Data					



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

Section No. 3

Civil Work

Bill No. 3

Roads and Paving

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

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>BOUNDARY WALL</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>SITE CLEARANCE ETC</u></b>			
	<b><u>Site clearance</u></b>			
19	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m <sup>2</sup>	4	
	<b><u>EXCAVATIONS</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
20	Trenches	m <sup>3</sup>	3	
	<b><u>Extra over trench and hole excavations in earth for excavation in:</u></b>			
21	Soft rock.	m <sup>3</sup>	1	
22	Hard rock.	m <sup>3</sup>	0.3	
	<b><u>Extra over all excavations for carting away:</u></b>			
23	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m <sup>3</sup>	1	
	<b><u>Risk of collapse of excavations</u></b>			
24	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	7	
	<b>Carried to Collection</b>			R
	Section No. 3 Boundary Wall Contract Part C2: Pricing Data			

<b><u>G5 Material supplied by the Contractor compacted to 95% Mod. AASHTO density:</u></b>					
25	Backfilling to trenches, holes, etc.	m <sup>3</sup>	1		
<b><u>Prescribed density tests on filling:</u></b>					
26	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	1		
<b><u>Soil insecticide</u></b>					
27	To bottoms and sides of trenches, etc	m <sup>2</sup>	3		
<b><u>25 MPa/20mm reinforced concrete</u></b>					
28	Strip footings	m <sup>3</sup>	1		
<b><u>Test blocks</u></b>					
29	Making and testing 150 x 150 x 150mm concrete strength test cube	No	1		
<b><u>BRICKWORK</u></b>					
<b><u>FOUNDATIONS</u></b>					
<b><u>Brickwork of NFX bricks in class 1 mortar</u></b>					
30	One brick walls	m <sup>2</sup>	3		
<b><u>SUPERSTRUCTURE</u></b>					
<b><u>Brickwork of NFX bricks in Class I mortar:</u></b>					
31	230mm walls.	m <sup>2</sup>	4		
<b><u>BRICKWORK SUNDRIES</u></b>					
<b><u>Brickwork reinforcement:</u></b>					
32	150mm Wide reinforcement built in horizontally.	m	27		
<b><u>FACE BRICKWORK</u></b>					
<b>Carried to Collection</b>					
Section No. 3 Boundary Wall Contract Part C2: Pricing Data				R	

<u>External facings in approved face bricks (FBX) pointed with flush horizontal and vertical joints</u>					
33	Extra over brickwork for face brickwork	m <sup>2</sup>	9		
34	Extra over brickwork for face brickwork in foundations	m <sup>2</sup>	5		
<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>					
35	220mm Copings on top of one brick walls	m	4		
<b>Carried to Collection</b>					
				R	

Section No. 3  
Boundary Wall  
Contract  
Part C2: Pricing Data

Section No. 3

Civil Work

Bill No. 4

Boundary Wall

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Section No. 3  
Boundary Wall  
Contract  
Part C2: Pricing Data

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO. 3</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>FENCING</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>Pressed high density line galvanised mesh panel fence, reinforced with 4 x 50mm "V" formation horizontal recessed bands and 2 x 75mm 70 degree flanges along sides, with 150mm post, gates, etc including galvanised steel bolts, etc, site clearance and preparation of ground</u></b>			
36	Fence 1200m high with and including galvanised posts and topped with galvanised "castle type" spike rails, bolted to 50mm wide mesh flange bent along fence to	m	4	
37	Fence 2400m high with and including galvanised posts and topped with galvanised "castle type" spike rails, bolted to 50mm wide mesh flange bent along fence to	m	33	
38	Double gate 2.0 x 2.4m high made with galvanised square tubing elements, reinforced mesh type or similar approved with galvanised wheels all as per structural engineer's specifications	No	4	
	<b>Carried Forward to Summary of Section No. 3</b>			R
	Section No. 3			
	Fencing			
	Contract			
	Part C2: Pricing Data			

Section No. 3

Civil Work

**SECTION SUMMARY**

Bill No		Page No	Amount R
1	Platforms	74	
2	Street Furniture	75	
3	Roads and Paving	79	
4	Boundary Wall	83	
5	Fencing	84	
<b>Carried to Final Summary</b>			R
Section No. 3 Contract Part C2: Pricing Data			

**SECTION NO.4 : ELECTRICAL WORK**

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

Item No		Quantity	Rate	Amount R
1	Electrical Work sub-total amount carried from final summary Section 4 (Excluding Value added Tax).	Item		
<b>Carried to Final Summary</b>				R
Section No. 4 Electrical Work Contract Part C2: Pricing Data				

**PRASA INHLAZANE STATION ELECTRICAL PROVISIONAL BOQ**

**LV Reticulation**

Item	Description	Unit	QTY	Cost	Total Cost
	<b>Distribution Boards</b>				
	Refurbish the following distribution boards, including all equipment, complete with all accessories. Installation shall include fixing, accessories and earthing.				
	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.				
1	Main Security DB - PC	Lot	1	R100 000,00	R 100 000,00
2	Ticket Office - 18 Way	Lot	2		
3	Security Office DB 18 Way	Lot	2		
4	160A MDB Refurb - PC	Lot	2	R 55 000,00	R 110 000,00
5	Stall Distribution Boards refurb	Lot	5		
6	Toilet Distribution Boards	Lot	2		
7	Platform Distribution Boards	Lot	3		
	<b>Power Cabling</b>				
	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				
8	50mm <sup>2</sup> x 4 core ecc cable	m	150		
9	35mm <sup>2</sup> x 4 core ecc cable	m	30		
10	25mm <sup>2</sup> x 4 core ecc cable	m	30		
11	16mm <sup>2</sup> x 4 core ecc cable	m	1000		
12	Joining Kits PC Sum	Lot	1		
	<b>Standby Generator</b>				
	Supply, Rig and Install following Standby Generator, including all equipment, complete with all accessories. Installation shall include fixing, plinth, accessories and earthing.				
13	Containerized 100kVA complete with Day tank and Automatic Transfer Switch	Lot	1		

14	Full Tank of Diesel upon Commissioning	Lot	1		
<b>Total Ex VAT</b>					

**PRASA INHLAZANE STATION ELECTRICAL PROVISIONAL BOQ**

**LIGHTING**

<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	30		
2	5 Amp, 3 pin, unswitched socket outlet to fit deep round conduit boxes	Lot	100		
3	LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed	Lot	60		
4	LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed with Battery Backup	Lot	20		
5	1578mm Surface Mounted fitting 53W LED complete with microwave sensor with 70'000hr operation warranty	Lot	80		
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	90		
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	80		
8	Bridge Lighting Solar type 40W LED Street Lamp	Lot	8		
9	Exit Sign/Running Man c/w battery backup including lamps	Lot	10		
10	2,5mm <sup>2</sup> x 3 (Red, Black & Green) - Housewire	m	5000		
11	25mm diameter PVC conduit	m	3000		
<b>Total Ex VAT</b>					

**PRASA INHLAZANE STATION ELECTRICAL PROVISIONAL BOQ**

**SMALL POWER**

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Cost</b>	<b>Total Cost</b>
<b>SMALL POWER</b>					
1	16 Amp, single Switched Socket Outlet - white	No	20		
2	16 Amp, single Switched Socket Outlet - white on Power Skirting	No	64		
3	20 Amp, DP Isolator - complete with conduit to outlet box below-	No	4		
4	4mm <sup>2</sup> x 3 (Red, Black & Green) - Housewire	m	1400		
5	25mm diameter PVC conduit	m	200		
6	2 compartment PVC Power Skirting	m	50		
7	500VA single phase UPS	Lot	8		
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 INHLAZANE 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 Inhlazane Train Station  
Prasa South Gauteng Region Corridor 3**

Item No		Quantity	Rate	Amount R
1	Mechanical Work sub-total amount carried from final summary Section 5 (Excluding Value added Tax).	Item		
<b>Carried to Final Summary</b>				R
Section No. 5 Mechanical Work Contract Part C2: Pricing Data				

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<b>SECTION NO. 5</b> <b>BILL NO. 1</b> <b>HVAC INSTALLATION</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, security expanded metal cage, electronic and electrical wiring up to isolator supplied by electrical contractor 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 drainage and all necessary accessories.	Supply Install	No No	4 4	
1,2	Inverter type Wall mounted units, cooling load 3.5kW, heating load 3.2kW with outdoor unit, refrigerant tubing, condensate drainage and all necessary accessories.	Supply Install	No No	1 1	
2,0	Supply and install the following extract air fan complete with electronic and electrical wiring up to isolator supplied by electrical contractor, speed controllers, support brackets, AND ALL NECESSARY MOUNTING ACCESSORIES				
2,1	FAN EF - 120 l/s wall mounted fans	Supply Install	No No	4 4	
3,0	<b>General</b>				
3,1	Testing and commissioning of the above system to the complete satisfaction of the Mechanical engineer and client	item	1		
3,2	Preparation and supply of handover documents	item	1		
3,3	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> <b><u>BILL NO. 2</u></b> <b><u>FIRE INSTALLATION</u></b>				
<b>1.</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> 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.				
	Supply	No.	4		
	Install	No.	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				
	Supply	No.	4		
	Install	No.	4		
2,3	Galvanised mild steel pipe treated with galvafruid 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	60		
2.3.2	50mm	m	80		
2.3.3	100mm	m	400		
<b>3,0</b>	<b><u>Fire extinguishers</u></b>				
3,1	Fire extinguishers complete with supports & fittings. 4,5kg DCP fire extinguishers				
	Supply	No.	6		
	Install	No.	6		
3,2	Fire extinguishers complete with supports & fittings. 5kg CO2 fire extinguishers				
	Supply	No.	2		
	Install	No.	2		

<b>4,0</b>	<b><u>Statutory Fire Signage</u></b> 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.	12		
4,2	E3 (190mm high)	No.	8		
4,3	E6 (190mm high)	No.	6		
4,1	E16/E17 (190mm high)	No.	4		
4,4	F4 (190mm high)	No.	6		
4,5	F13 (190mm high)	No.	8		
4,4	F17/F20 (190mm high)	No.	4		
4,6	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>SECTION NO. 5</b>  <b>BILL NO. 3</b>  <b>PLUMBING AND DRAINAGE</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>				
<b>1</b>	<b>PIPING - COPPER</b>				
1.1	Ø28mm pipe	m	150		
1.2	Ø22mm pipe	m	240		
1.3	Ø15mm pipe	m	120		
<b>2</b>	<b>FITTINGS</b>				
	Extra over copper pipework for capillary type soldered fittings				
2.1	Ø28mm Equal T-piece	No	4		
2.2	Ø22mm Equal T-piece	No	20		
2.3	Ø28mm Elbow: 90°	No	8		
2.4	Ø22mm Elbow: 90°	No	32		
2.5	Ø15mm Elbow: 90°	No	90		
2.6	Reducer: Ø28mm x Ø22mm	No	4		
2.8	Reducer: Ø28mm x Ø15mm	No	0		
2.9	Reducer: Ø22mm x Ø15mm	No	24		

2.10	Pipe clamps and hangers	Sum	1		
2,11	Hot water pipe insulation	Sum	1		
<b>3</b>	<b>VALVES - COPPER</b>				
3.1	Ø25mm isolating ball valve with lever on cold and hot water main pipes	No	2		
3.2	Ø20mm isolating ball valve with lever on cold and hot water main pipes	No	4		
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	45		
<b>4</b>	<b>ELECTRIC GEYSER</b>				
4,1	Instant boiling water 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.  Capacity: 15 litres Element Rating: 2.4 kW	Set	2		
<b>5</b>	<b>STORAGE TANKS</b>				
5,1	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		
5,2	Allow for connection of the Jojo tank to the water reticulation for domestic use.	Sum	1		
5,3	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. Mounted on a concrete plint with an expanded metal cage for security.	Sum	1		
<b>SUBTOTAL</b>					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p><b>SECTION NO. 5</b>  <b>BILL NO. 3</b>  <b>PLUMBING AND DRAINAGE</b></p> <p>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.</p> <p><b>SANITARY DRAINAGE PIPING</b>  Polyvinyl Chloride (PVC) pipe including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004</p>				
<b>1</b>	<b>PIPING</b>				
1.1	∅50mm uPVC pipe	m	96		
1.2	∅110mm uPVC pipe	m	350		
<b>2</b>	<b>FITTINGS</b>				
2.1	∅50mm fitting; 90°elbow	No	72		
2.2	∅110mm fitting; 45°elbow	No	36		
2.3	∅110mm x ∅110mm x ∅110mm fitting; 87.5° swept entry, lateral branch junction	No	16		
2.4	∅50mm vent one way valve	No	8		
2.5	∅110mm x ∅50mm fitting; concentric reducer	No	8		
<b>3</b>	<b>WASTE TRAPS</b>				
3.1	40mm flexi rubber "P" trap complete with coupling clamps.	No	28		
<b>4</b>	<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		
	<b>SUBTOTAL</b>				
	<b>TOTAL CARRIED FORWARD TO SUMMARY</b>				

PRASA INHLANZANE STATION MECHANICAL PROVISIONAL BOQ

SUMMARY

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

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

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

Item No		Quantity	Rate	Amount R
1	Electronic Work sub-total amount carried from final summary Section 6 (Excluding Value added Tax).	Item		
	<b>Carried to Final Summary</b>			R
	Section No. 6 Electronics Contract Part C2: Pricing Data			

**PRASA INHLAZANE STATION ELECTRONICS PROVISIONAL BOQ**

**FIRE DETECTION**

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Cost</b>	<b>Total Cost</b>
	<b>Fire Detection</b>				
1	Addressable Smoke Detectors	Lot	54		
2	Addressable Smoke Detectors + Void LED	Lot	20		
3	Addressable Heat Detectors	Lot	8		
4	Addressable Manual Call Point (Breakglass)	Lot	10		
5	Addressable Relay Unit	Lot	8		
6	Addressable Loop Beacon	Lot	4		
7	Addressable Loop Sounder	m	6		
8	Power Supply 24V	Lot	8		
9	Fire Cables - PH30/30 minutes rated	m	1900		
10	Fire Cables - PH120/120 minutes rated	m	500		
11	4 Loop Fire Panel	Lot	2		
12	Installation & Commissioning	Lot	1		
<b>Total Ex VAT</b>					

**PRASA INHLAZANE STATION ELECTRONICS PROVISIONAL BOQ**

**EQUIPMENT**

<b>Item</b>	<b>Description</b>	<b>Unit</b>	<b>QTY</b>	<b>Cost</b>	<b>Total Cost</b>
	<b>Equipment</b>				
1	Digital Voice Evac/PA System compliant with Prasa Railcom System complete with 40 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	20		
3	PH30 Voice Evacuation Cabling including IP66 Rated Junction Boxes	m	5400		
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	2		
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	2		
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	2		
<b>Total Ex VAT</b>					

**PRASA INHLAZANE STATION ELECTRONICS PROVISIONAL BOQ  
SUMMARY**

<b>Item</b>	<b>Description</b>	<b>Cost</b>
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 Inhlazane Train Station  
Prasa South Gauteng Region Corridor 3**

Item No		Quantity	Rate	Amount R
1	Access Control sub-total amount carried from final summary Section 7 (Excluding Value added Tax).	Item		
<b>Carried to Final Summary</b>				R
Section No. 7 Access Control Contract Part C2: Pricing Data				

**PROVISIONAL BOQ INHLANZANE STATION**

**PRELIMINARY AND GENERAL**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Cost</b>	<b>Total Cost</b>
1	Tansport	1		
2	Labour Monday -Friday- Rate Only	80		
3	Delivery of turnstile	1		
4	Brownfield Fees	1		
<b>Total Ex VAT</b>				

**PROVISIONAL BOQ INHLANZANE STATION**

**CABLING**

<b>Item</b>	<b>Description</b>	<b>QTY</b>	<b>Cost</b>	<b>Total Cost</b>
1	Connector - RJ 45 for CAT 5	120		
2	Server Racks Cabinets 42U - Lockable	2		
3	Connector Boot - RJ45 Grey	120		
4	Cable - CAT 6E U/UTP BC 500m	6		
5	Cable CAT6E UTP 0.57mm Solid Copper	1		
<b>Total Ex VAT</b>				

**PROVISIONAL BOQ INHLANZANE STATION**

**EQUIPMENT**

<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	82		
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	21		
3	NVR 32 Ch 16 PoE 4K AI+SMD+ANPR. Rack mounted complete with all relevant Software	3		
5	Surveillance Hard Drive 6TB.	4		
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	4		
9	IP Based Intercomm System - PC	1		
10	Anti Vandal Bespoke Solid Steel Poles	6		
11	Full height, bi directional single turnstile - Single turnstile - Polyester exterior grade powder coat - charcoal blue - Fail Secure	6		
12	Biometric/fingerprint reader mounting bracket - Polyester exterior grade powder coat - charcoal blue	12		
13	Battery backup 24 Volt DC with 12V rechargeable batteries	6		

14	LED indicator lights (red and green - 80mm diameter) for full height turnstile - 2 units, one for entry and one for exit	6		
15	Security gate 970mm wide x 2 125mm high - mortice lock (843mm clear opening) - Polyester exterior grade powder coat - charcoal blue	2		
	<b>Total Ex VAT</b>			

**PROVISIONAL BOQ INHLANZANE STATION**

**SUMMARY**

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

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

Section No	<u>SUMMARY OF SECTIONS</u>	Page No	Amount R
1	Preliminaries	20	
2	Building Work	71	
3	Civil Work	85	
4	Electrical Work	86	
5	Mechanical Work	87	
6	Electronics Work	88	
7	Access Control	89	
	Sub Total		R
	<b><u>CONTINGENCY</u></b>		
	ADD: Construction Contingency (10%)	Item	
	Sub Total		R
	ADD: Value added Tax at 15%		R
	<b>TOTAL CARRIED TO FORM OF TENDER</b>		R
	Contract Part C2: Pricing Data		