

PROVISIONAL BILLS OF QUANTITIES

FOR

REFURBISHMENTS AND UPGRADES TO BRAAMFONTEIN DEPOT

AT

BRAAMFONTEIN, JOHANNESBURG

JUNE- 22

SECTION NO.1 : PRELIMINARIES

Item No	Quantity	Rate	Amount R
<u>SECTION NO. 1</u>			
<u>PRELIMINARIES AND GENERAL</u>			
<u>BILL NO. 1</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
<p>The JBCC 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 JBCC Principal Building Agreement contract data form an integral part of this agreement</p> <p>The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described</p> <p>The contractor 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 agreement such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this agreement 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>			
Carried to Collection			R
Section No. 1 Preliminaries and General Contract Part C2: Pricing Data			

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

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

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

- 4 Clause 4.0 - Cession and assignment

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

- 5 Clause 5.0 - Documents

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

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

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

- 7 Clause 7.0 - Design responsibility

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

Insurances and securities (A8-A11)

- 8 Clause 8.0 - **Works** risk

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

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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 - Securities</p> <p><u>Execution (A12 - A17)</u></p>			
12	<p>Clause 12.0 - Obligations of the parties</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 subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
15	<p>Clause 15.0 - Selected subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
16	<p>Clause 16.0 - Direct contractors</p> <p>Attendance on direct contractors</p> <p>In respect of direct contractors the contractor shall:</p> <p>1. Designate an area for the direct contractor 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 direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1]</p> <p>F:..... V:..... T:.....</p>				
17	<p>Clause 17.0 - Contract instructions</p> <p>Site instructions</p> <p>Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor</p> <p>F:..... V:..... T:.....</p> <p><u>Completion (A18 - A24)</u></p>	Item			
18	Clause 18.0 - Interim completion	N/A			
19	<p>Clause 19.0 - Practical completion</p> <p>F:..... V:..... T:.....</p>	Item			
20	Clause 20.0 - Completion in sections				
21	Clause 21.0 - Defects liability period and final completion				
22	<p>Clause 22.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>	Item			
<p style="text-align: right;">Carried to Collection</p> <p>Section No. 1 Preliminaries and General Contract Part C2: Pricing Data</p>					
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23	<p>Clause 23.0 - Revision of the date for practical completion</p> <p>Substitution of materials and goods</p> <p>The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]</p> <p>F:..... V:..... T:.....</p>	Item		
24	<p>Clause 24.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p> <p>Payment (A25 - A27)</p>	Item		
25	<p>Clause 25.0 - Payment</p> <p>Prices submitted</p> <p>Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>F:..... V:..... T:.....</p>	Item		
26	<p>Clause 26.0 - Adjustment of the contract value and final account</p> <p>Fluctuations in costs</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 contractor [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> <p><u>Suspension and termination (A28 - A29)</u></p>	Item		
28	<p>Clause 28.0 - Suspension by the contractor</p> <p>F:..... V:..... T:.....</p>	Item		
29	<p>Clause 29.0 - Termination</p> <p>F:..... V:..... T:.....</p> <p><u>Dispute resolution (A30)</u></p>	Item		
30	<p>Clause 30.0 - Dispute resolution</p> <p>F:..... V:..... T:.....</p>	Item		
31	<p><u>Agreement</u></p> <p>The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties</p> <p>F:..... V:..... T:.....</p>	Item		
32	<p><u>Contract data</u></p> <p>F:..... V:..... T:.....</p> <p><u>SECTION B: GENERAL PRELIMINARIES</u></p> <p><u>Definitions and interpretation (B1)</u></p>	Item		
33	<p>Clause 1.1 - Definitions</p> <p>F:..... V:..... T:.....</p>	Item		
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34	<p>Clause 1.2 - Interpretation</p> <p>F:..... V:..... T:.....</p> <p><u>Documents (B2)</u></p>	Item		
35	<p>Clause 2.1 - Checking of documents</p> <p>F:..... V:..... T:.....</p>	Item		
36	<p>Clause 2.2 - Provisional bills of quantities</p> <p>F:..... V:..... T:.....</p>	Item		
37	<p>Clause 2.3 - Availability of construction information</p> <p>F:..... V:..... T:.....</p>	Item		
38	<p>Clause 2.4 - Ordering of materials and goods</p> <p>F:..... V:..... T:.....</p> <p><u>Previous work and adjoining properties (B3)</u></p>	Item		
39	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F:..... V:..... T:.....</p>	Item		
40	<p>Clause 3.2 - Previous work - defects</p> <p>F:..... V:..... T:.....</p>	Item		
41	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p>	Item		
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	<u>The site (B4)</u>			
42	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item		
43	Clause 4.2 - Enclosure of the works	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		
	<u>Management of contract (B5)</u>			
48	Clause 5.1 - Management of the works 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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<u>Samples, shop drawings and manufacturer's instructions (B6)</u>				
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		
<u>Deposits and fees (B7)</u>				
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item		
<u>Temporary services (B8)</u>				
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	<p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><u>Prime cost amounts (B9)</u></p>	Item		
60	<p>Clause 9.1 - Responsibility for prime cost amounts</p> <p><u>Attendance on subcontractors (B10)</u></p>			
61	<p>Clause 10.1 - General attendance</p> <p><u>User note</u></p> <p><i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i></p> <p>F:..... V:..... T:.....</p>	Item		
62	Clause 10.2 - Special attendance			
63	<p>Clause 11.1 - Protection of the works</p> <p>F:..... V:..... T:.....</p>	Item		
64	<p>Clause 11.2 - Protection/isolation of existing works and works occupied in sections</p> <p>F:..... V:..... T:.....</p>	Item		
65	<p>Clause 11.3 - Security of the works</p> <p>F:..... V:..... T:.....</p>	Item		
66	<p>Clause 11.4 - Notice before covering work</p> <p>F:..... V:..... T:.....</p>	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		
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
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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Section No. 1 Preliminaries and General Contract Part C2: Pricing Data				

75	<p>Warranties for material and workmanship</p> <p>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</p> <p>F:.....V:.....T:.....</p>				
		Item			
76	<p>Co-operation of contractor for cost management</p> <p>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</p> <p>F:.....V:.....T:.....</p>				
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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

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Item

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HIV/AIDS AWARENESS

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

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

80 **AWARENESS CHAMPION**

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

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

Item

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81	<p>AWARENESS WORKSHOPS</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item		
82	<p>POSTERS, BOOKLETS, VIDEOS, ETC.</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item		
83	<p>ACCESS TO CONDOMS</p> <p>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.</p> <p>F:..... V:..... T:.....</p>	Item		
Carried to Collection			R	
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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 as set out in the C3.4

Provision for pricing of all the main contractor's costs as stipulated in the deliverables L1.1, L1.2, L1.3, L1.4, L1.5, L1.6, L2, L3, L4, L5.1, L5.2, L5.3, L5.4, L6.1, L6.2, L6.3, L7, L8, L9, L10, L11, L12 and L13, 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 as stipulated in Volume 2: Form K - SMME Target form

Provision for pricing of all the main contractor's costs as stipulated in Form K - SMME Target form 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

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Section No. 1
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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 in C3.3 Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities / lump sum document

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

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

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Item

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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 in C3.3

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

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

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

Item

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SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

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SECTION 1 : PRELIMINARIES			
Bill No. 1			
Preliminaries and General			
<u>COLLECTION PAGE</u>			
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Total Brought Forward from Page No.	1		
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SECTION NO.2 : GIBELA BUILDING

Item No	Quantity	Rate	Amount R
<u>BILL NO. 1</u>			
<u>ALTERATIONS</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions and preambles in other bills</u>			
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.			
<u>General</u>			
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			
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.			
Tenderers are advised that parts of the existing buildings on the site, including the existing water supply and sanitary systems will be in use during the progress of the Works and any disconnections, etc. that may be necessary must be made as directed by the Project Manager and in such a manner as to cause the minimum of inconvenience to the manner as to cause the minimum of inconvenience to the occupants of the buildings			
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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

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.

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

Protection

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

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

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

Making good damaged work

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

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Pulling down

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

Junction of new and existing

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

Existing and adjoining buildings, etc.

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

Forming new openings or altering openings in existing walls

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

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Building up openings

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

Site works

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

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

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

Plant and Scaffolding

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

Dimensions

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

Removal of ceilings

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

NOTE:

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

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

REMOVAL OF EXISTING WORK

Breaking down and removing brickwork etc

1	Half brick wall	m²	25	
2	One brick wall	m²		Rate Only

Taking up and removing pavers, etc

3	Concrete pavers laid loose on compacted subbase	m²	1	Rate Only
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Taking out and removing doors, windows, etc from brickwork to be demolished

4	Timber single door and frame not exceeding 2,5m2	No	4	
5	Timber double door and frame exceeding 2.5m2 and not exceeding 5m2	No	1	

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

6	Timber single door and frame 813 x 2032m	No	4	
7	Steel window approximate size 2550 x 1000mm high	No	3	
8	Steel window approximate size 1000 x 2000mm high	No	1	

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

9	Timber single door not exceeding 2,5m2	No	1	
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Taking down and removing roofs, floors, panelling, ceilings, partitions, etc

10	Corrugated iron roof covering and timber purlins, inspect and repair roof trusses to receive new covering.	m²	39	
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**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

11	Corrugated iron roof covering and timber purlins and roof trusses to receive new roof and covering.	m ²	34		
12	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m ²	308		
13	Gutters and downpipes complete with fittings	m	1		
14	Fibre cement fascia and badge boards	m	16		
<u>Taking out and removing sundry joinery work</u>					
15	Timber skirtings from brickwork	m	101		
<u>Taking out and removing joinery fittings etc</u>					
16	Timber kitchen sink cupboard approximately 1000 x 600 x 890mm high	No	1		
<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>					
17	Carpet floor covering including preparing screed for new floor covering	m ²	1		Rate Only
<u>Take off and remove existing ironmongery from doors, including making good and prepare to receive new ironmongery (elsewhere measured)</u>					
18	Mortice lockset complete with handles from timber door	No	5		
19	Door closer from timber door	No	1		Rate Only
<u>Taking out and removing ironmongery</u>					
20	Stainless steel toilet roll holder	No	3		
21	Paper towel dispenser	No	2		
22	Liquid dispenser	No	2		
<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u>					
23	30mm Thick screed from floors	m ²			Rate only
Carried to Collection				R	
Bill No. 1 Alterations Contract Part C2: Pricing Data					

**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

	<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>				
24	Tiles to floors	m ²	213		
25	Tiles to walls	m ²	143		
26	Tile skirting	m	102		
	<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>				
27	Stainless steel single bowl sink	No	1		
28	Vitreous china wash hand basin	No	3		
29	Vitreous china WC pan with cistern	No	4		
30	Floor drain	No	1		
31	Recessed ceramic trough	No	1		
32	Shower set comprising undertile shower mixer, tap, overhead shower arm and shower head	No	2		
33	15mm Chromium plated built-in type shower cubicle set comprising: 1x undertile shower mixer with square pattern taps and backplate, 1x overhead shower arm and vandal proof swivel action shower head	No	2		
34	Granite vanity counter top approximately 1185mm long	No	1		
	<u>Taking out and removing glass and mirrors</u>				
35	Glass from steel windows including cleaning out rebates and preparing for new glass (LI)	m ²	55		
36	Mirror size 600 x 900mm high from wall	No	2		
	<u>Servicing of existing fire equipment</u>				
37	2,5kg Carbon dioxide fire extinguisher including inspection, replacement of all worn parts, etc. to the satisfaction of the Project Manager	No			Rate Only
	Carried to Collection			R	
	Bill No. 1 Alterations Contract Part C2: Pricing Data				

**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

38	4,5kg Dry chemical powder fire extinguisher including inspection, replacement of all worn parts, etc. all to the satisfaction of the Project Manager	No				Rate Only
39	Fire hose reel including inspection, replacement of all worn parts, etc. and leave it in perfect working condition to the satisfaction of the Project Manager	No				Rate Only
<u>BUILDING UP OPENINGS</u>						
<u>Brickwork in NFP bricks in class II mortar in building up openings</u>						
40	Half brick walls	m ²	1			
41	One brick walls	m ²	12			
<u>FACE BRICKWORK</u>						
<u>External facings in approved face bricks (FBX) pointed with flush horizontal and vertical joints</u>						
42	Extra over brickwork for face brickwork	m ²	5			
<u>Sundries</u>						
43	Cutting toothings and bonding new brickwork to existing	m ²	2			
<u>PREPARATORY WORK TO EXISTING SURFACES</u>						
44	Making good defects in existing screeded floors with an approved cementious compound	m ²				Rate Only
<u>MAKING GOOD OF FINISHES ETC</u>						
45	Making good brickwork at end of 230mm brick wall	m				Rate Only
46	Making good brickwork to face of wall where 230mm brick cross wall was removed	m				Rate Only
<u>REPAIRING PLASTER</u>						
Carried to Collection					R	
Bill No. 1 Alterations Contract Part C2: Pricing Data						

General Notes

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

All work is deemed to be in patches

Prepare and apply 3:1 plaster admixture as described

47	On brick walls	m ²			Rate Only
48	On narrow widths	m ²			Rate Only

CLEANING OF WALLS

Cleaning of surfaces

49	Facebrick walls	m ²	253		
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Bill No. 1
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OPENINGS THROUGH EXISTING WALLS ETC

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

50 Opening for door size 900 x 600mm high overall through one brick wall

No

3

SEALING OF EXISTING ROOF SHEETING

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

51 Roof with a pitch not exceeding 25 degrees

m²

627

SERVICE AND REPAIR

Inspect and service

52 Roller shutter door 2200 x 2400mm high including ironmongery

No

1

Carried to Collection

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Alterations
Contract
Part C2: Pricing Data

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

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

Carting away of excavated material

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

Filling

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

Testing

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

Carried to Collection

R

Bill No. 2
Earthworks
Contract
Part C2: Pricing Data

DEMOLITIONS ETC

Taking down and removing

53	Diamond mesh fence 2.1m high	m	119		
	Single storey prefabricated building with hipped roof approximately 28 x 12 on plan and 2.6m high overall comprising concrete surface bed external walls and internal walls	No	1		

SITE CLEARANCE ETC

Site clearance

54	Stripping average 150mm thick layer of top soil and depositing material in prescribed stock piles on site	m ²	1		
55	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m ²	1		

REMOVAL OF TREES ETC

Taking out and removing, grubbing up roots and filling in holes

56	Tree stump exceeding 200mm and not exceeding 500mm girth	No	1		
57	Tree stump exceeding 500mm and not exceeding 1000mm girth	No	2		

EXCAVATIONS

Excavation in earth not exceeding 2m deep

58	Reduced levels under floors.	m ³	0.2		
59	Trenches	m ³	7		

EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER

Carried to Collection

R

Bill No. 2
Earthworks
Contract
Part C2: Pricing Data

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<u>FILLING ETC</u>					
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>					
65	Backfilling to trenches, holes, etc	m ³	4		
<u>Earth filling supplied by the contractor, compacted to 95% Mod AASHTO density</u>					
66	Under floors	m ³	13		
<u>Compaction of surfaces</u>					
67	Compaction of ground surface under strip footings and bases, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	7		
68	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m ²	20		
<u>SOIL POISONING</u>					
<u>Soil insecticide in accordance with SANS 5859</u>					
69	Under floors etc, including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m ²	20		
70	To bottoms of trenches etc	m ²	7		
<u>Prescribed density tests on filling</u>					
71	Modified AASHTO Density test	No	1		
Carried to Collection				R	
Bill No. 2 Earthworks Contract Part C2: Pricing Data					

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

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

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

Carried to Collection

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Bill No. 3
Concrete, Formwork and Reinforcement
Contract
Part C2: Pricing Data

<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>					
<u>25MPa/19mm concrete</u>					
72	Strip footings	m³	2		
<u>REINFORCED CONCRETE</u>					
<u>25MPa/19mm concrete</u>					
73	Surface beds on waterproofing including thickenings	m³	1		
74	Ramps	m³	5		
<u>TEST CUBES</u>					
75	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	2		
<u>CONCRETE SUNDRIES</u>					
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>					
76	Top of surface beds	m²	1		
<u>Finishing top surfaces of concrete smooth with a wood float</u>					
77	Ramps to falls	m²	19		
<u>MOVEMENT JOINTS ETC</u>					
<u>Isolation joints with 10mm "Jointex" filler between vertical concrete surfaces or between vertical concrete and brickwork surfaces</u>					
78	10mm joints not exceeding 300mm high	m	10		
<u>REINFORCEMENT</u>					
<u>Mild and high tensile steel reinforcement to structural concrete work</u>					
79	All diameter bars	t			Rate Only
Carried to Collection				R	
Bill No. 3 Concrete, Formwork and Reinforcement Contract Part C2: Pricing Data					

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Item No	Quantity	Rate	Amount R
<p><u>BILL NO. 4</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></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><u>CPAP ADJUSTMENT</u></p> <p>Unless otherwise stated all the following items shall be deemed to fall into Work Group 116 for Contract Price Adjustment Provisions</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>BRICKWORK</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p>-----</p>			
<p>Carried to Collection</p>			R
<p>Bill No. 4 Masonry Contract Part C2: Pricing Data</p>			

<u>BRICKWORK</u>					
<u>FOUNDATIONS</u>					
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar</u>					
81	Half brick walls	m²	10		
82	One brick walls	m²			Rate Only
<u>SUPERSTRUCTURE</u>					
<u>Brickwork of NFP bricks (7 MPa nominal compressive strength) in class 1 mortar</u>					
83	Half brick walls	m²	27		
84	Half brick walls in beam filling	m²	1		
85	One brick walls	m²			Rate Only
<u>BRICKWORK SUNDRIES</u>					
<u>Brickwork reinforcement</u>					
86	75mm Wide reinforcement built in horizontally	m	64		
87	150mm Wide reinforcement built in horizontally	m			Rate Only
<u>Prestressed fabricated lintels</u>					
88	110 x 75mm Lintels in lengths not exceeding 3m	m	12		
<u>Galvanised hoop iron cramps, ties, etc</u>					
89	30 x 1,2mm Wall tie 500mm long with one end shot pinned to concrete and other end bent to form a right angle and built into brickwork	No	6		
<u>FACE BRICKWORK</u>					
Carried to Collection				R	
Bill No. 4 Masonry Contract Part C2: Pricing Data					

<u>External facings in approved face bricks (FBX) pointed with flush horizontal and vertical joints</u>					
90	Extra over brickwork for face brickwork	m ²	54		
91	Extra over brickwork for face brickwork in foundations	m ²	19		
<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>					
92	150mm Wide sill set sloping and slightly projecting	m	3		
<u>NUTEC-CEMENT/FIBRE-CEMENT WINDOW SILLS</u>					
<u>Natural grey sills in single lengths bedded in class I mortar including metal fixing lugs etc</u>					
93	15 x 175mm Wide sills set flat and slightly projecting	m	3		
<u>GRANITE COUNTER TOPS AND VANITY SLABS</u>					
<u>KITCHEN COUNTERS</u>					
<u>30mm thick polished granite counters with all exposed edges large bevel edged, fixed to supports (elsewhere specified) using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.</u>					
94	L-shaped counter 5907mm girth along front and 4750mm girth along back x 600mm wide including forming opening for double bowl sink	No	1		
95	L-shaped counter 6469mm girth along front and 5105mm girth along back x 600mm wide including forming opening for double bowl sink (Cupboards existing)	No	1		
Carried to Collection				R	
Bill No. 4 Masonry Contract Part C2: Pricing Data					

96	<u>30mm thick polished granite vanity slabs with 5mm chamfered top edge including fixing to timber cupboards (cupboards elsewhere measured)</u>				
	Vanity slab size 1185mm wide x 600mm deep including forming circular shaped openings for two wash hand basins (basins elsewhere measured)	No	1		
Carried to Collection					R

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Item No		Quantity	Rate	Amount R
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	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			

	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
97	In walls	m ²	1	
	<u>One layer of 250 micron waterproof sheeting sealed at laps with pressure sensitive tape</u>			
98	Under surface beds	m ²	1	
	<u>Approved waterproofing to shower floors and side walls</u>			
99	On shower floors and walls under tiles	m ²	26	
	<u>JOINT SEALANTS ETC</u>			
	<u>Polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
100	10 x 10mm In vertical isolation joints	m	10	
	Carried Forward to Summary of Section No. 1			R
	Bill No. 5			
	Waterproofing			
	Contract			
	Part C2: Pricing Data			

Item No		Quantity	Rate	Amount R
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS ETC</u>			
	<u>PREAMBLES</u>			
	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			
	<u>CPAP ADJUSTMENT</u>			
	Unless otherwise stated all the following items shall be deemed to fall into Work Group 124 for Contract Price Adjustment Provisions			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Straight cutting</u>			
	Descriptions of all roof coverings are deemed to include for all straight cutting			

	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<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 SL 700 approved clips and fasteners all in accordance with manufacturer's recommendations and specifications.</u>			
101	Roof covering with pitch not exceeding 25 degrees	m ²	152	
102	Side claddings	m ²	15	
	<u>ROOF INSULATION</u>			
	<u>Heavy duty reflective aluminium foil bonded insulation</u>			
103	Insulation boards fixed over timber purlins	m ²	39	
	Carried Forward to Summary of Section No. 1			
	Bill No. 6			
	Roof Coverings			
	Contract			
	Part C2: Pricing Data			
			R	

Item No	Quantity	Rate	Amount R
<u>BILL NO. 7</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
Plate nailed timber roof truss construction			
The following is applicable in respect of roof trusses:			
Trusses are at maximum 1,20m centres. Roof covering is 0,58mm Corrugated sheeting on 50 x 75mm purlins. Ceilings are 6,4mm skimmed gypsum plasterboard sheeting on 38 x 38mm brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements shall be obtained from the architect and/or the site before design or fabrication commences			
Joinery			
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
Fixing			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
Decorative laminate finish			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			

Carried to Collection			R
Bill No. 7 Carpentry and Joinery Contract Part C2: Pricing Data			

<u>ROOFS, ETC</u>					
<u>Supply and install complete plate nailed roof truss construction</u>					
104	Double pitched roof 15m2 overall on plan, including part trusses, jack rafters, permanent bracing, 38 x 114mm purlins at centres for roof sheeting.	No	1		
105	Mono pitched roof 113m2 overall on plan, including part trusses, jack rafters, permanent bracing, 38 x 114mm purlins at centres for roof sheeting.	No	1		
<u>Sundries</u>					
106	Two coats wood preservative applied hot on sawn and wrought exposed timbers at eaves	m ²	1		
<u>EAVES, VERGES, ETC</u>					
<u>Medium density plain fibre-cement plain fascias and barge boards</u>					
107	12 x 300mm Fascias and barge boards, including aluminium H-profile joiners	m	21		
<u>SKIRTINGS</u>					
<u>Wrought meranti</u>					
108	20 x 120mm Skirtings	m	101		
<u>DOORS, ETC</u>					
<u>Semi-solid flush panel door with concealed hardwood edges and commercial veneer on both sides, hung to steel frames</u>					
109	44mm Thick single door size 813 x 2032mm high	No	3		
<u>Solid core flush panel doors with concealed hardwood edge strips with solid chipboard core clad with commercial veneer facing on both sides and hung to steel frames (Steel frames measured elsewhere)</u>					
110	44mm Thick single door size 813 x 2032mm high	No	1		
Carried to Collection				R	
Bill No. 7 Carpentry and Joinery Contract Part C2: Pricing Data					

**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

111	44mm Thick single sliding door size 900 x 2032mm high with and including sliding mechanism	No	2		
112	44mm Thick single door size 1850 x 2032mm high	No	1		
<u>JOINERY FITTINGS</u>					
<u>General</u>					
The following fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc					
<u>KITCHEN CUPBOARDS</u>					
<u>22mm Thick white melamine carcass base and shelves with masonite backing and black painted chipboard kickplates complete with and including timber bearers, melawood impact post formed wrapped doors fitted with appropriate hinges and all ironmongery</u>					
113	Floor standing L-shaped counter 5907mm girth along front and 4750mm girth along back x 600mm wide x 900mm high complete with back, divisions, drawers, filler pieces etc for supporting counter (counter measured elsewhere)	No	1		
Carried to Collection					R
Bill No. 7 Carpentry and Joinery Contract Part C2: Pricing Data					

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Item No		Quantity	Rate	Amount R
	<p><u>BILL NO. 8</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></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><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></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><u>Proprietary suspended ceilings</u></p> <p>Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)</p> <p>-----</p> <p><u>CEILINGS, ETC</u></p> <p><u>Approved insulation</u></p>			
114	50mm Insulation closely fitted and laid on top of branderling between roof timbers, etc	m²	308	
	<p><u>SUSPENDED CEILINGS</u></p> <p>Carried to Collection</p> <p>Bill No. 8 Ceilings, Partitions and Access Flooring Contract Part C2: Pricing Data</p>			R

	<u>12.5mm Vinyl Faced Gypsum Ceiling Panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated Cliq system S3 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>				
115	Horizontal ceilings, including 38 x 38mm sawn softwood branderling at 450mm centres	m ²	69		
	<u>1200 x 600 x 15mm biologically absorbable fire rated mineral wool 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>				
116	Horizontal ceilings suspended not exceeding 1m below concrete soffits	m ²	238		
	<u>Cornices to suspended ceilings</u>				
117	Pre-painted cornices, nailed and plugged	m	288		
	<u>PARTITIONS ETC</u>				
	<u>FIXED PARTITIONS</u>				
	<u>Partition systems</u>				
	Partitions consisting of 63,5mm steel studs inserted at 600mm centres into 63,5mm steel track at top and bottom including additional studs as necessary at abutments, ends, etc, clad on both sides as described with wallboard screwed to studding with 25mm and 41mm drywall screws at maximum 220mm centres. Boards are to be butt jointed and finished with tape and joint filler all in accordance with the manufacturer's instructions. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc				
	Carried to Collection			R	
	Bill No. 8 Ceilings, Partitions and Access Flooring Contract Part C2: Pricing Data				

	Where partitions are described as "with top track fixed to suspended ceiling tees" rates shall be deemed to include for standard U-section aluminium channel to top of walls				
	Rates for partitions are to include for penetrations of services and structures occurring in the ceiling void, and the sealing there off				
	Wall paper and/or paint and varnish finishes are measured elsewhere				
	<u>Standard system steel stud partitions with both sides clad with one layer of 12,7mm taper-edge rhino board</u>				
118	Partitioning 2,60m high with bottom track plugged and top track fixed to suspended ceiling tees	m	19		
119	Extra over partition 2,60m high for vertical abutment	No	7		
120	Extra over partition 2,60m high for T-intersection	No	2		
121	Extra over partition 2,60m high for corner	No	1		
	<u>Extra over partitions for 40mm hollow core doors with masonite hardboard covering on both sides, hung to and including standard natural anodized aluminium door frame with one pair of 100mm nylon washered aluminium hinges to each hanging stile, including additional studding, trimming, etc to partitions</u>				
122	Door size 813 x 2032mm high	No	3		
Carried to Collection					R
Bill No. 8 Ceilings, Partitions and Access Flooring Contract Part C2: Pricing Data					

[illegible]

Item No		Quantity	Rate	Amount R
<u>BILL NO. 9</u>				
<u>FLOOR COVERINGS, WALL LININGS, ETC</u>				
<u>PREAMBLES</u>				
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				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Fixing</u>				
Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				

<u>FLOOR COVERINGS</u>				
<u>100% Stain proof structured needle punch SABS Class 3 fire rating grade heavy commercial carpet tiles, size 500 x 500 x 8,5mm thick, all installed by approved installer in accordance with SANS 10186:2010.</u>				
123	On floors	m ²	155	
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
124	Natural anodised aluminium edge strips between different floor finishes	m	2	
Carried Forward to Summary of Section No. 1				R
Bill No. 9 Floor Coverings and Wall Linings Contract Part C2: Pricing Data				

Item No	Quantity	Rate	Amount R
<u>BILL NO. 10</u>			
<u>IRONMONGERY</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Finishes to ironmongery</u>			
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			
<u>NOTE:</u>			
<u>ALL LOCKS TO BE ON A MASTER AND GRAND MASTER KEY SYSTEM</u>			

<u>HINGES, BOLTS, ETC</u>			
<u>Grade 304 Stainless steel</u>			
125	WC indicator bolt	No 3	
126	Disabled indicator bolt, fixed to surface with matching stainless steel screws.	No 3	
127	88 x 100mm High overall bush bearing butt hinge	No 8	
Carried to Collection			R
Bill No. 10 Ironmongery Contract Part C2: Pricing Data			

LOCKS

Grade 304 Stainless steel

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

PUSH PLATES AND KICKING PLATES

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

130	813 x 200mm Kick plate	No	5
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HANDLES

Grade 304 Stainless steel

131	Round D pull handle on 19 x 200 mm backplate	Pairs	11
132	Round D pull handle on 19 x 300 mm backplate	Pairs	3

DOOR CLOSERS

Grade 304 Stainless steel

133	Door closer with sliding track arm. Non handed with a maximum 180 degree non hold opening as standard. Power adjustable by spring, latching and damping action. Must be suitable for exterior doors also. Product characteristics ratio - weight to door weight; 20kg, 40g, 60 kg, 80kg, 100kg to 120kg for light to solid doors. For Anti Bandit doors heavy duty Door Closers to be used for weight up to 300kg	No	2
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LETTERS, NAMEPLATES, ETC

Stainless steel

134	152 x 152 x 2mm Thick engraved with female pictogram	No	2
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Carried to Collection

R

Bill No. 10
Ironmongery
Contract
Part C2: Pricing Data

**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

135	152 x 152 x 2mm Thick engraved with male pictogram	No	2		
136	152 x 152 x 2mm Thick engraved with paraplegic pictogram	No	3		
137	152 x 152 x 2mm Thick engraved with kitchen and breakroom pictogram	No	2		
<u>SUNDRIES</u>					
<u>Approved</u>					
138	Stainless steel door stop	No	5		
139	Hat and coat hook	No	3		
<u>BATHROOM FITTINGS</u>					
140	Satin stainless steel recessed toilet roll holders for single or two rolls, plugged and screwed to the wall with stainless steel screws.	No	6		
141	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	2		
142	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	5		
143	Satin stainless steel towel rings, plugged and screwed to the wall with stainless steel screws.	No	5		
144	Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock , plugged and screwed to the wall with stainless steel screws.	No	5		
145	Satin stainless steel paper towel dispenser with min 600 folded paper towels and cylinder lock, plugged and screwed to the wall with stainless steel screws.	No	5		
Carried to Collection				R	
Bill No. 10 Ironmongery Contract Part C2: Pricing Data					

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

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[illegible]

Item No	Quantity	Rate	Amount R
<u>BILL NO. 11</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions</u>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			

<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,2mm Thick double rebated frames suitable for one brick walls complete with hoop iron anchors welded to frame, one adjustable chromium plated steel striking plate suitable for cylinder locks, three rubber shock absorbers in rebate and one and a half pair 100mm knuckle loose pin steel hinges welded to frame</u>			
150	Frame for door size 813 x 2032mm high	No 4	
151	Frame for door size 900 x 2100mm high	No 2	
152	Frame for door size 1850 x 2100mm high	No 1	
Carried to Collection			R
Bill No. 11 Metalwork Contract Part C2: Pricing Data			

ALUMINIUM SHOP FRONTS, DOORS, WINDOWS, ETC

Aluminium shop fronts, doors, windows, etc

Natural anodized aluminium windows preglazed with 6,5mm thick clear laminated safety glass complete with anti bandit butler, ironmongery and fittings including sealing with approved silicone sealant and fixed to brickwork or concrete

153	Window overall size 450 x 600mm high	No	1
154	Window overall size 900 x 600mm high	No	2
155	Viewing panel, overall size 900 x 600mm high	No	3

RECYCLING BINS

Approved stainless steel furniture

156	Recycling bin formed of GRC and stainless steel . Overall size 1010mm wide x 1140mm high.	No	1
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Carried to Collection

R

Bill No. 11
Metalwork
Contract
Part C2: Pricing Data

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

[illegible]

Item No		Quantity	Rate	Amount R
<u>BILL NO. 12</u>				
<u>PLASTERING</u>				
<u>PREAMBLES</u>				
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				
<u>SUPPLEMENTARY PREAMBLES</u>				

<u>SCREEDS</u>				
<u>Screeds on concrete</u>				
157	30mm Thick on floors and landings	m ²		Rate Only
<u>INTERNAL PLASTER</u>				
<u>Cement plaster on brickwork</u>				
158	On walls	m ²	75	
159	On narrow widths	m ²	1	
Carried Forward to Summary of Section No. 1				R
Bill No. 12 Plastering Contract Part C2: Pricing Data				

Item No		Quantity	Rate	Amount R
	<u>BILL NO. 13</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	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			

	<u>WALL TILING</u>			
	<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>			
160	On walls	m ²	198	
161	On narrow widths	m ²	1	
	<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>			
162	On walls in isolated panels, splashbacks, etc	m ²	6	
	<u>FLOOR TILING</u>			
	Carried to Collection			R
	Bill No. 13 Tiling Contract Part C2: Pricing Data			

[illegible]

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

[illegible]

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

uPVC pipes and fittings

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

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

uPVC pressure pipes and fittings

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

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

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

Copper pipes

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

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

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

Carried to Collection

Bill No. 14
Plumbing and Drainage
Contract
Part C2: Pricing Data

R

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

Reducing fittings

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

Fixing of pipes

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

Paper wrapping to pipes

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

Disinfection of water pipework

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

Petrolatum anti-corrosion tape

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

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

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

Carried to Collection

R

Bill No. 14
Plumbing and Drainage
Contract
Part C2: Pricing Data

Laying, backfilling, bedding, etc of pipes

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

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

SANS 1200L : Medium-pressure pipelines
SANS 1200LD : Sewers
SANS 1200LE : Stormwater drainage

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

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

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

General

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

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

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

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

Carried to Collection

R

Bill No. 14
Plumbing and Drainage
Contract
Part C2: Pricing Data

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

Exposed concrete surfaces

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

Excavations

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

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

As-built drawings

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

RAINWATER DISPOSAL

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

166	100 x 150mm Eaves gutters	m	23
167	Extra over 100 x 150mm eaves gutter for stopped end	No	3
168	Extra for outlet for 100mm pipe	No	3
169	100 x 75mm Rainwater pipes	m	8
170	Extra over 100 x 75mm pipe for angle	No	3
171	Extra over 100 x 75mm pipe for bend	No	3

Carried to Collection

R

Bill No. 14
Plumbing and Drainage
Contract
Part C2: Pricing Data

**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

172	Extra over 100 x 75mm pipe for shoe	No	3		
173	Extra 100 x 75mm pipe for eaves or plinth offset	No	3		
<u>SOIL DRAINAGE</u>					
<u>Vitrified clay gulleys</u>					
174	Gulley not exceeding 1m deep to invert comprising 100mm diameter vitrified clay gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in (3:1) cement mortar	No	1		
<u>Sundries</u>					
175	Testing drainage pipe system		Item		
Carried to Collection					R
Bill No. 14 Plumbing and Drainage Contract Part C2: Pricing Data					

BUDGETARY ALLOWANCES

Sewer

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

Item

Stormwater

- 177 Provide a sum of R20 000.00 (Twenty 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)

- 178 Double end bowl inset sink, overall size 1160 x 460mm wide with two 340 x 370 x 150mm deep bowl, fitted onto cupboard (elsewhere measured) including 38mm waste fitting and PVC trap (trap elsewhere measured).

No

1

White glazed vitreous china

- 179 Top flush suite with floor mounted open rim pan, Top flush Cistern, pan fixations, normal close seat and top flush mechanism, Pan and cistern made from vitreous china, Installation as per manufacturers specification.

No

3

- 180 Vitreous china floor mounted paraplegic washdown suite comprising semi close couple 90° outlet open rim washdown pan and matching 9 litre cistern, including lid, fitments and purpose-made chromium plated side flush lever.

No

3

- 181 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

3

- 182 Vitreous china drop-in vanity basin colour White, size 420 x 420mm

No

2

Carried to Collection

R

Bill No. 14
Plumbing and Drainage
Contract
Part C2: Pricing Data

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

[illegible]

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

195	25mm diameter chrome flush valve for WC or equal approved for concealed installation with push button actuator, 1,2 - 5,0 bar flow pressure, flow rate adjustment, including 25mm supply pipe, stop valve, flush pipe and 300mm extension pipe to WC.	No	6
196	15mm Chromium plated built-in type shower cubicle set comprising: 1x undertile shower mixer with square pattern taps and backplate, 1x overhead shower arm and vandal proof swivel action shower head	No	2
Carried to Collection			
Bill No. 14 Plumbing and Drainage Contract Part C2: Pricing Data			

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

Section No. 1			
Building Work			
Bill No. 14			
Plumbing and Drainage			
<u>COLLECTION PAGE</u>			
	Page No		Amount R
Total Brought Forward from Page No.	52		
Total Brought Forward from Page No.	53		
Total Brought Forward from Page No.	54		
Total Brought Forward from Page No.	55		
Total Brought Forward from Page No.	56		
Total Brought Forward from Page No.	57		
Total Brought Forward from Page No.	58		
Total Brought Forward from Page No.	59		
Total Brought Forward from Page No.	60		

Item No		Quantity	Rate	Amount R
<u>BILL NO. 15</u>				
<u>GLAZING</u>				
<u>PREAMBLES</u>				
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				

<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>4mm Clear float glass</u>				
197	Panes not exceeding 0,1 m2	m²	22	
198	Panes exceeding 0,5m2 and not exceeding 2m2	m²	5	
<u>GLAZING TO WOOD WITH PINNED-ON BEADS</u>				
<u>4mm Clear float glass</u>				
199	Panes exceeding 0,1m2 and not exceeding 0,5m2	m²	1	
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<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>				
200	Mirror size 600 x 900mm high	No	5	
Carried Forward to Summary of Section No. 1				R
Bill No. 15 Glazing Contract Part C2: Pricing Data				

Item No	Quantity	Rate	Amount R
BILL NO. 16			
<u>PAINTWORK</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>DESCRIPTIONS</u>			
Descriptions of paintwork shall be deemed to include for all cutting in			
<u>PREPARATORY WORK TO EXISTING WORK</u>			
Previously painted plastered surfacesSurfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth			
Previously painted metal surfacesSurfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal			
Previously painted wood surfacesSurfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth			

Carried to Collection			R
Bill No. 16 Paintwork Contract Part C2: Pricing Data			

<u>PAINTWORK, ETC TO NEW WORK ON</u>					
<u>FLOATED PLASTER SURFACES WITH</u>					
<u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u>					
201	Internal walls	m²	21		
202	Narrow widths	m²	1		
<u>One coat alkali resistant plaster primer and two coats modified acrylic fine textured emulsion paint on</u>					
203	External walls	m²	1		
204	Narrow widths	m²	1		
<u>ON PLASTER BOARD SURFACES</u>					
<u>One coat plaster primer and two coats super acrylic polvin</u>					
205	On partitions	m²	97		
<u>FIBRE-CEMENT SURFACES WITH</u>					
206	On fascias and barge boards	m²	6		
<u>METAL SURFACES WITH</u>					
<u>Spot priming defects in pre-primed surfaces with zinc phosphate metal primer, one coat universal undercoat and two coats super universal high gloss enamel paint on steel</u>					
207	On door frames	m²	4		
<u>WOOD SURFACES WITH:</u>					
<u>One coat pink wood primer, one coat universal undercoat and two coats super universal high gloss enamel paint on</u>					
208	Doors	m²	18		
Carried to Collection				R	
Bill No. 16					
Paintwork					
Contract					
Part C2: Pricing Data					

209	<p><u>Three coats polyurethane suede varnish on</u></p> <p>Skirtings, rails, etc not exceeding 300mm girth</p> <p><u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK ON</u></p> <p>General</p> <p>All works are to be executed in strict accordance with the paint specifications of the manufacturer for the preparation of previously painted surfaces</p> <p>Primer (first) coats may be thinned in accordance with the specifications of the manufacturer to aid the absorption of the paint</p> <p>All surfaces must be sound, clean and have a moisture content of less than 12%</p> <p>Previously painted plastered surfaces</p> <p>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</p> <p>Previously painted metal surfaces</p> <p>Surfaces shall be thoroughly rubbed and cleaned down to remove dirt and other contaminants and sanded lightly to provide a key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and any rust encountered shall be removed</p> <p>Previously painted wood surfaces</p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a filler as described and sanded smooth</p> <p><u>BRICK OR QUARRY TILE SURFACES WITH</u></p>	m	101	
	<p style="text-align: right;">Carried to Collection</p> <p>Bill No. 16 Paintwork Contract Part C2: Pricing Data</p>		R	

	<u>Two coats brick dressing on</u>				
210	Recessed pointed faced walls	m ²	216		
	<u>FLOATED PLASTER SURFACES WITH</u>				
	General				
	Prepare and repair as specified, brush to remove all loose contaminants, rinse and apply one coat alkali resistant primer to bare substrate areas, one coat universal undercoat and two coats non-drip polyurethane enamel paint on existing alkyd-based painted surfaces				
	<u>Two coats modified acrylic fine textured emulsion paint on work in poor condition on</u>				
211	External walls and columns	m ²	109		
212	External walls in narrow widths	m ²	1		
	<u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u>				
213	Internal walls	m ²	583		
	<u>METAL SURFACES WITH</u>				
	<u>One coat super universal enamel paint on work in sound condition on steel</u>				
214	Door frames	m ²	13		
215	On windows	m ²	101		
216	On eaves gutters not exceeding 300 mm girth	m	117		
	<u>One coat of waterprime, one coat of universal undercoat and two coats of gloss enamel on work in sound condition on steel</u>				
217	Rails, bars, pipes, etc not exceeding 300mm girth	m	1		
Carried to Collection				R	
Bill No. 16					
Paintwork					
Contract					
Part C2: Pricing Data					

	<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>				
218	Roller shutter doors	m²	5		
	<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>				
219	On profiled roof sheeting (measured on flat)	m²	627		
	<u>WOOD SURFACES WITH:</u>				
	<u>Remove all loose and flaking paint to sound substrate, stop, fill holes and cracks with wood filler, sand down, spot prime bare wood with primer for wood and apply one coat universal undercoat and two coats high gloss enamel paint on existing alkyd-based paint surfaces on:</u>				
220	Doors	m²	18		
Carried to Collection					R
Bill No. 16					
Paintwork					
Contract					
Part C2: Pricing Data					

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**Refurbishments and Upgrades to Gibela Building
Prasa South Gauteng Region Corridor 3**

Item No		Quantity	Rate	Amount R
	<u>BILL NO. 17</u>			
	<u>PROVISIONAL SUMS</u>			

	<u>COMMUNITY LIASON OFFICER</u>			
221	Allow the amount of R60,000.00 (Sixty 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		60 000.00
222	Allow for general attendance		%	
223	Allow for profit		%	
	<u>EPWP TRAINING</u>			
224	Allow the amount of R200,000.00 (Two Hundred Thousand Rand) for Expanded Public Works Programme Training, to be used at the discretion of the Project Manager and deducted in whole or in part if not required	Item		200 000.00
225	Allow for general attendance		%	
226	Allow for profit		%	
	<u>SIGNAGE</u>			
227	Allow the amount of R15 000.00 (Fifteen Thousand Hundred Rand) signage to be used at the discretion of the Project Manager and deducted in whole or in part if not required	Item		15 000.00
228	Allow for profit		%	
229	Allow for general attendance		%	
	Carried Forward to Summary of Section No. 1		R	
	Bill No. 17			
	Provisional Amounts			
	Contract			
	Part C2: Pricing Data			

Bill No	SECTION SUMMARY	Page No	Amount R
1	Alterations	12	
2	Earthworks	18	
3	Concrete, Formwork and Reinforcement	23	
4	Masonry	28	
5	Waterproofing	29	
6	Roof Coverings	30	
7	Carpentry and Joinery	34	
8	Ceilings, Partitions and Access Flooring	38	
9	Floor Coverings and Wall Linings	39	
10	Ironmongery	44	
11	Metalwork	47	
12	Plastering	48	
13	Tiling	51	
14	Plumbing and Drainage	61	
15	Glazing	62	
16	Paintwork	68	
17	Provisional Amounts	69	
Carried to Final Summary			R
Contract Part C2: Pricing Data			

Item No	Quantity	Rate	Amount R
<u>BILL NO. 1</u>			
<u>ROADS AND PARKING</u>			
Unless otherwise described, the preambles and full descriptions of the items in the preceeding Bills are to apply equally to this Bill			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Descriptions and Preambles</u>			
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.			
<u>Testing of material and filling</u>			
Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series			
<u>EARTHWORKS (BULK EXCAVATION, FILLING ETC)</u>			
<u>Rip and compact of surfaces</u>			
1	Rip and compact existing subbase to 90% of Mod AASHTO density	m ²	313
<u>Excavation not exceeding 2m deep</u>			
2	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 ³	43
Carried to Collection			R
Bill No. 1 Roads and Paving Contract Part C2: Pricing Data			

<u>Extra over excavations for carting away</u>					
3	Surplus material from stock piles on site to a dumping site to be located by the contractor	m ³	42		
<u>Keeping excavations free of water</u>					
4	Keeping excavations free of water		Item		
<u>Earth filling supplied by the contractor under pavings and roads or in soil mattress, etc as drawings 102472-CIV-005 and 006</u>					
5	Subbase course under roads and parking compacted to 95% Mod AASHTO density (G5 material with CBR to be minimum 45% at 95% Mod AASHTO density, maximum PI to be 10 in accordance with SANS 1200M)	m ³	43		
<u>Compaction of surfaces</u>					
6	Compaction of ground surface (G5 material) under roads and parking, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% of Mod AASHTO density	m ²	1		
<u>Prescribed density tests on filling:</u>					
7	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	10		
<u>ROADS - ASPHALT BASE AND SURFACING</u>					
<u>Asphalt road and parking surfacing</u>					
8	40mm Thick continuously graded asphalt surfacing	m ²	313		
<u>Prime coat</u>					
9	MC-30 Cutback bitumen	m ²	313		
<u>Tack coat</u>					
10	30% Stable-grade emulsion	m ²	313		
<u>PAVING</u>					
Carried to Collection				R	
Bill No. 1 Roads and Paving Contract Part C2: Pricing Data					

	<u>Approved weedkiller mixed in the proportion and applied as specified by the manufacturer</u>				
11	Under block paving, etc	m²	278		
	<u>60mm standard grey double zig zag interlocking roadstone paving on 25mm thick cement/riversand bed with sand and cement mixture swept into joints and hosed down</u>				
12	Paving to parking	m²	278		
	<u>60mm standard grey double zig zag interlocking roadstone paving on 25mm thick cement/riversand bed with sand and cement mixture swept into joints and hosed down</u>				
13	Paving to parking	m²			
	<u>Precast concrete finished smooth on exposed surfaces including bedding, jointing and pointing</u>				
14	Kerb (SABS 927 fig 11) 75mm wide x 150mm high with 150mm x 150mm x 300mm unreinforced concrete haunching at back of each joint including excavation, backfilling, etc	m	42		
	<u>PAINTING</u>				
	<u>Prepare and paint one coat colour reflective road marking paint on paving</u>				
15	100mm Wide yellow line	m	58		
16	Single-headed directional arrow 400mm wide x 1400mm long	No	4		
17	Paraplegic sign painted on road surface	No	1		
Carried to Collection					R
Bill No. 1 Roads and Paving Contract Part C2: Pricing Data					

[illegible]

Item No		Quantity	Rate	Amount R
	BILL NO. 2			
	FENCING			
	PREAMBLES			
	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 ----- <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>			
18	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	15	
19	Fence 2800m 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	9	
20	Extra over for 150mm diameter taper post 2400mm long, including 400 x 600mm deep concrete base, 85mm width tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge.Post shall be sealed with a UV stabilised polymer cap and fitted with a 12mm base pin	No	5	
21	Extra over for 150mm diameter taper post 2800mm long, including 400 x 600mm deep concrete base, 85mm width tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge.Post shall be sealed with a UV stabilised polymer cap and fitted with a 12mm base pin	No	4	
	Carried Forward to Summary of Section No. 2		R	
	Bill No. 2 Fencing Contract Part C2: Pricing Data			

SECTION SUMMARY		Page No	Amount R	
1	Roads and Paving	74		
2	Fencing	75		
Contract Part C2: Pricing Data				
Carried to Final Summary			R	

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

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

PRASA GIBELA DEPOT ELECTRICAL PROVISIONAL BOQ LV Reticulation					
Item	Description	Unit	QTY	Cost	Total Cost
	<p style="text-align: center;">Distribution Boards</p> <p>Refurbish the following distribution boards, including all equipment, complete with all accessories. Installation shall include fixing, accessories and earthing.</p> <p>The price shall include for all fixing materials, circuit terminations, lugs, cable straps and any other items necessary for the complete installation. The price shall also include liaison with the board manufacturer, obtaining shop drawings for approval by the engineer, and the preparation and provision of detailed legend cards, as per the specification.</p>				
1	Main Distribution Board Refurb - PC	Lot	1	R150 000,00	R150 000,00
	<p style="text-align: center;">Power Cabling</p> <p>Supply and install the following cables laid on cable tray, pulled in a sleeve or in a trench, including all fixings and accessories. The cables shall be 600/1000V/ PVC/SWA/PVC/ECC with copper conductors. Complete with terminations</p>				
2	50mm ² x 4 core ecc cable	m	150		
	<p style="text-align: center;">Standby Generator</p> <p>Supply, Rig and Install following Standby Generator, including all equipment, complete with all accessories. Installation shall include fixing, plinth, accessories and earthing.</p>				
3	Containerized 100kVA complete with Day tank and Automatic Transfer Switch	Lot	1		
4	Full Tank of Diesel upon Commissioning	Lot	1		
Total Ex VAT					

PRASA GIBELA DEPOT ELECTRICAL PROVISIONAL BOQ					
LIGHTING					
Item	Description	Unit	QTY	Cost	Total Cost
	LIGHTING				
1	16 Amp, single lever light Switch - white	Lot	18		
2	5 Amp, 3 pin, unswitched socket outlet to fit deep round conduit boxes	Lot	83		
3	LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed	Lot	43		
4	LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed with Battery Backup	Lot	10		
5	LED Downlighter glare free recessed in ceiling or concrete box IP66 rated. 4000K	Lot	30		
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	9		
7	Concrete box for recessed downlighter in concrete slab	Lot	22		
8	Daylight switch and 3 phase 20A contactor	Lot	1		
9	Exit Sign/Running Man c/w battery backup including lamps	Lot	5		
10	2,5mm² x 3 (Red, Black & Green) - Housewire	m	3000		
11	25mm diameter PVC conduit	m	5000		
12	50mm PVC Round Boxes in ceiling	Lot	300		
13	100x50 Steel Boxes chased in wall	Lot	45		
Total Ex VAT					

PRASA GIBELA DEPOT ELECTRICAL PROVISIONAL BOQ SMALL POWER					
Item	Description	Unit	QTY	Cost	Total Cost
1	16 Amp, single Switched Socket Outlet - white including 4x4 wall box chased	No	23		
2	16 Amp, single Switched Socket Outlet - white on Power Skirting	No	54		
3	Cluster box complete with 2 x 16A Outlets, 2 x Data outlets	No	5		
4	Recessed Floor box complete with 2 x 16A Outlets, 2 x Data outlets	No	1		
5	20 Amp, DP Isolator - complete with conduit to outlet box below- including 4x4 wall box chased Hydroboils and Handdryers	No	6		
6	20 Amp, DP Isolator in ceiling void with indication lamp - complete with 4x4 Box for Gyser	No	4		
7	20 Amp, DP Waterproof Isolator surface mounted on wall in 100x100 Box - complete with 4x4 Box for Air Conditioning Units	No	12		
8	20 Amp, DP Isolator in ceiling void with indication lamp - complete with 4x4 Box for FANS	No	8		
9	4mm ² x 3 (Red, Black & Green) - Housewire	m	8500		
10	25mm diameter PVC conduit	m	5000		
11	2 compartment PVC Power Skirting	m	50		
12	2 compartment power PVC skirting Internal Bends	Lot	6		
13	2 compartment power PVC skirting End Caps	Lot	20		
14	2 compartment power PVC skirting TEES	Lot	14		
15	200mm wide medium duty wire mesh complete with hangers and accessories installed in ceiling void	m	48		
16	200mm wide P8000 trunking complete with hangers, covers and accessories installed in ceiling void	m	48		
17	500VA single phase UPS	Lot	16		
18	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		
Total Ex VAT					

PRASA GIBELA DEPOT ELECTRICAL PROVISIONAL BOQ

SUMMARY

Item	Description	Cost
1	LV Reticulation	
2	Lighting	
3	Small Power	
Sub Total Ex VAT		
VAT @ 15%		
Total Inc VAT		

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

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

ITEM NO	DESCRIPTION	UNIT	QTY	Rate Only	AMOUNT
	SECTION NO. 5 BILL NO. 1 HVAC INSTALLATION				
1,0	Supply and install the following wall mounted extraction fans to be controlled by a presence sensor with a run on timer complete with filters where relevant electronic and electrical wiring up to isolator supplied by electrical contractor, speed controllers, flexible canvas connection, support brackets, AND ALL NECESSARY MOUNTING ACCESSORIES				
1,1	FAN EF-01 - 68 l/s wall mounted	no	7		
1,2	FAN EF-02 - 136 l/s wall mounted	no	1		
2,0	Supply and install the following AC units (DX system) , complete with matching refrigerant tubing, condensate drainage, mounting brackets, thermostats, remote controllers, electronic and electrical wiring upto isolator supplied by electrical contractor and ALL MOUNTING ACCESSORIES NECESSARY				
2,1	Midwall, cooling only 2.6kW	no	2		
2,2	Midwall, cooling load 2.6kW, heating load 3.2kW	no	2		
2,3	Midwall, cooling load 5.3kW, heating load 6.0kW	no	2		
2,4	Cassette Units, cooling load 8.8kW heating load 10.0kW	no	1		
2,5	Cassette Units, cooling load 10.6kW heating load 12.0kW	no	1		
2,6	Dia 32mm uPVC drainage piping including bends	m	40		
2,7	200mm wide heavy duty welded wire mesh including supports	m	30		
2,8	Insulated refrigerant piping and approved refrigerant gas as per manufacture's specification and drawing provided	Item	1		
3,0	General				
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		
TOTAL					
VAT @ 15%					
GRAND TOTAL					

ITEM NO.	DESCRIPTION	UNIT	QTY	TOTAL RATE	AMOUNT R c
	SECTION NO. 5 BILL NO. 2 FIRE INSTALLATION				
1,0	General				
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		
2,0	Fire Plan				
	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.				
	Fire Hydrants				
2,1	65mm hydrant valve with handwheel opening mechanism & fittings.				
	Supply	No.	1		
	Install	No.	1		
	Fire Hose Reels				
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.	1		
	Install	No.	1		
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 25mm	m	40		
3,0	Fire extinguishers				
3,1	Fire extinguihers complete with supports & fittings. 4,5kg DCP fire extinguishers				
	Supply	No.	2		
	Install	No.	2		
3,2	Fire extinguihers complete with supports & fittings. 5kg CO2 fire extinguishers				
	Supply	No.	2		
	Install	No.	2		

4,0	Fire blankets Fire blankets nominal size 1200 x 1200 in cover with quick release mechanism. Minimum weight 430 gr/m ² , ignition time 13min and Max temp.550°C.	No.	2		
5,0	<u>Statutory Fire Signage</u> Supply and install photoluminescent signs (in Anodised aluminium frames) on all areas indicating the escae routes and equipment location. The installation shall comply to SANS 1186. The signs shall be mechanically fixed on walls and soffits.				
5,1	E1/E2 (190mm high)	No.	4		
5,2	E3 (190mm high)	No.	4		
5,3	E6 (190mm high)	No.	3		
5,4	F14 (190mm high)	No.	1		
5,5	F17/20 (190mm high)	No.	1		
5,6	F13 (190mm high)	No.	2		
5,7	F30 (190mm high)	No.	1		
Total to Summary Page					
vat 15%					
Grand Total					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION NO. 5 BILL NO. 3 PLUMBING AND DRAINAGE 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. HOT & COLD WATER PIPING 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.				
1	PIPING - COPPER				
1.1	Ø28mm pipe	m	30		
1.2	Ø22mm pipe	m	92		
1.3	Ø15mm pipe	m	96		
2	FITTINGS				
	Extra over copper pipework for capillary type soldered fittings				
2,1	Ø22mm Equal T-piece	No	12		
2,2	Ø28mm Elbow: 90°	No	4		
2,3	Ø22mm Elbow: 90°	No	2		
2,4	Ø15mm Elbow: 90°	No	64		
2,5	Reducer: Ø28mm x Ø22mm	No	1		
2,60	Reducer: Ø22mm x Ø15mm	No	12		
2,7	Pipe clamps and hangers	Sum	1		
2,8	Hot water pipe insulation	Sum	1		

3	VALVES - COPPER				
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	6		
3.3	Flexible connector to sanitay fittings	No	24		
3.4	15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	26		
4	ELECTRIC GEYSER Supply and install a vertical electric water geyser , mounted in ceiling void, complete with copper piping, pressure control valves, draincock, vaccum breakers, thermostat, expansion relief valve, strainers, lever ball valves, drip tray, hot water pipe insulation, mixing valve and all neccesary accesories and ftings, as specified Capacity: 150 litres Element Rating: 3 kW	Set	1		
5	HYDROBOIL 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		
SUBTOTAL					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION NO. 5 BILL NO. 3 PLUMBING AND DRAINAGE 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. SANITARY DRAINAGE PIPING Polyvinyl Chloride (PVC) pipe including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004				
1	PIPING				
1.1	Ø50mm uPVC pipe	m	20		
1.2	Ø110mm uPVC pipe	m	36		
2	FITTINGS				
2.1	Ø50mm fitting; 90°elbow	No	20		
2.2	Ø110mm fitting; 45°elbow	No	12		
2.3	Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction	No	4		
2.4	Ø50mm vent one way valve	No	6		
3	WASTE TRAPS				
3.1	40mm flexi rubber "P" trap complete with coupling clamps.	No	8		
4	AS BUILT DRAWINGS				
4.1	Submission of 3off 'As Built' drawings indicating the final positioning and layout of the entire sanitary drainage installation as installed on site by the Contractor	Sum	1		
5	Stripping of existing plumbing and drainage	Sum	1		
6	OTHER				
6,1	Any other items required for the successful completion of the work but not included in this bill of quantities. <i>Please specify:</i> (a) (b)				
	SUBTOTAL				
	TOTAL CARRIED FORWARD TO SUMMARY				

PRASA GIBELA BUILDING MECHANICAL PROVISIONAL BOQ

SUMMARY

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

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

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

PRASA GIBELA DEPOT ELECTRONICS PROVISIONAL BOQ					
FIRE DETECTION					
Item	Description	Unit	QTY	Cost	Total Cost
	Fire Detection				
1	Addressable Smoke Detectors	Lot	18		
2	Addressable Smoke Detectors + Void LED	Lot	5		
3	Addressable Heat Detectors	Lot	2		
4	Addressable Manual Call Point (Breakglass)	Lot	6		
5	Addressable Relay Unit	Lot	3		
6	Addressable Loop Beacon	Lot	7		
7	Addressable Loop Sounder	m	2		
8	Power Supply 24V	Lot	2		
9	Fire Cables - PH30/30 minute rated	m	500		
10	Fire Cables - PH120/120 minutes rated	m	100		
11	4 Loop Fire Panel	Lot	1		
12	Installation & Commissioning	Lot	1		
Total Ex VAT					

PRASA GIBELA DEPOT ELECTRONICS PROVISIONAL BOQ					
EQUIPMENT					
Item	Description	Unit	QTY	Cost	Total Cost
	Equipment				
1	Digital Voice Evac/PA System compliant with Prasa Railcom System complete with 6 x 30W Outdoor Speakers and all mounting Brackets. Include 43U Mounting Rack	No	1		
2	PH30 Voice Evacuation Cabling including IP66 Rated Junction Boxes	m	120		
3	Integration of Detection System with other Services/System - Engineer AutoFill	No	1		
4	Intrusion Detection System with Infrared Motion sensors in Ticket Offices complete with 8 zone control panel, Led Keypad with Battery Backup, 6 x panic Buttons and Internal Siren	Lot	1		
Total Ex VAT					

PRASA GIBELA DEPOT ELECTRONICS PROVISIONAL BOQ

SUMMARY

Item	Description	Cost
1	Fire Detection	
2	Equipment	
Sub Total Ex VAT		
VAT @ 15%		
Total Inc VAT		

Refurbishments and Upgrades to Gibela Building Prasa South Gauteng Region Corridor 3

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

PROVISIONAL BOQ GIBELA

PRELIMINARY AND GENERAL

Item	Description	QTY	Cost	Total Cost
1	Tansport - Supply separate breakdown	1		
2	Labour Monday -Friday- Rate Only	40		
3	Configuration & initail Setup Cost	24		
Total Ex VAT				

PROVISIONAL BOQ GIBELA

CABLING

Item	Description	QTY	Cost	Total Cost
1	Connector - RJ 45 for CAT 5	50		
2	Server Racks Cabinets 42U - Lockable	1		
3	Connector Boot - RJ45 Grey	50		
4	Cable - CAT 6E U/UTP BC 500m	2		
5	Cable CAT6E UTP 0.57mm Solid Copper	1		
Total Ex VAT				

EQUIPMENT			
Description	QTY	Cost	Total Cost
Biometric Outdoor Fingerprint & RFID Outdoor Stand alone Reader	8		
RFID card	100		
RFID & Fingerprint Indoor Slave Reader	8		
Power Supply with Battery Leads, 12V 7Ah battery not included	8		
12V 7.2AH Sealed Lead Acid Battery	8		
Maglock 280 kg With LED	8		
Bracket for 280 kg Maglock	8		
Access Control Silver Door Closer - medium duty	8		
Emergency Green Call Point - Resettable	8		
USB Proximity RFID Enrollement Reader	8		
Biosecurity software for Access control	1		
Inbio 460 - 4 Door Pro Access Control Panel	6		
CAT6 Cable, 305m Pull Box, CCA, White (Indoor Use)	6		
CAT6 RJ45 Connectors, Stranded/Solid Core, 50 Pack	1		
RJ45 Connector Boots, Grey, 50 Pack	1		
Lite Bullet 1080p IR 30 2.8mm Intrusion, tripwire	24		
NVR 32 Ch 16 PoE 4K AI+SMD+ANPR. Rack mounted complete with all relevant Software	1		
55 Inch HD Monitor Wall Mounted	1		
16 Port 10/100 Managed PoE + 2GB TP	2		
Surveillance Hard Drive 6TB.	2		

Rack Mountable 10KVA UPS complete with 1 hour full load capacity on non corrosive batteries - 1 duty and other standby	1		
Total Ex VAT			

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

Section No		Page No	Amount R
1	Building Work	70	
2	Civil Work	76	
3	Electrical Work	77	
4	Mechanical Work	78	
5	Electronics	79	
6	Access Control	80	
	Sub Total		R
<p style="text-align: right;">TOTAL CARRIED TO FORM OF TENDER</p> <p>Contract Part C2: Pricing Data</p>			R

Refurbishments and Upgrades to Braamfontein Depot Prasa South Gauteng Region Corridor 3

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SECTION NO.3 : PERWAY BUILDING

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

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.

Carried to Collection

Bill No. 1
Alterations
Contract
Part C2: Pricing Data

R

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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Bill No. 1
Alterations
Contract
Part C2: Pricing Data

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

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	Dust screen 2600mm high between concrete floor and ceiling formed of suitable timber framing with 375 micron polyethylene sheeting stapled on including corners, ends, etc	m	9
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REMOVAL OF EXISTING WORK

Breaking down and removing brickwork etc

2	Half brick wall	m ²	116
3	One brick wall	m ²	258

Take off and remove doors from walls to be demolished

4	Timber single door not exceeding 2,5m2	No	4
5	Timber single double exceeding 2,5m2 but not exceeding 5,0m2	No	4

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

6	Suspended ceilings including cornices, timber bandering, etc	m ²	541
7	Stainless steel toilet roll holder	No	8
8	Paper towel dispenser	No	8
9	Liquid dispenser	No	8

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Bill No. 1
Alterations
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Part C2: Pricing Data

<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>					
10	Tiles to floors	m ²	541		
11	Tile skirting	m	397		
<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>					
12	Stainless steel double bowl sink	No	2		
13	Vitreous china wash hand basin	No	18		
14	Vitreous china WC pan with cistern	No	15		
15	Vitreous china urinal	No	2		
<u>Taking out and removing glass and mirrors</u>					
16	Glass from steel windows including cleaning out rebates and preparing for new glass (LI)	m ²			Rate Only
17	Mirror size 600 x 900mm high from wall	No	5		
<u>PREPARATORY WORK TO EXISTING SURFACES</u>					
18	Making good defects in existing screeded floors with an approved cementious compound	m ²	33		
19	Making good defects in existing plastered ceilings where walls where removed	m ²	33		
<u>REPAIRING PLASTER</u>					
Carried to Collection				R	
Bill No. 1 Alterations Contract Part C2: Pricing Data					

General Notes

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

All work is deemed to be in patches

Prepare and apply 3:1 plaster admixture as described

20	On brick walls	m ²			Rate Only
21	On narrow widths	m ²			Rate Only

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 Alterations
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Building Work

Bill No. 1

Alterations

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

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

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

R

UNREINFORCED CONCRETE

25MPa/19mm concrete

22	Shower Steps, urinal steps, cupboard platforms, etc	m ³	2		
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TEST CUBES

23	Making and testing 150 x 150 x 150mm concrete strength test cubes	No	1		
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MOVEMENT JOINTS ETC

Isolation joints with 10mm filler between vertical concrete surfaces or between vertical concrete and brickwork surfaces

24	10mm joints not exceeding 300mm high	m	164		
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Bill No. 2
Concrete, Formwork and Reinforcement
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Bill No. 2
 Concrete, Formwork and Reinforcement
 Contract
 Part C2: Pricing Data

BRICKWORK

SUPERSTRUCTURE

Brickwork of NFP bricks (7 MPa nominal compressive strength) in class 1 mortar

25	Half brick walls	m ²	398	
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BRICKWORK SUNDRIES

Brickwork reinforcement

26	75mm Wide reinforcement built in horizontally	m	426	
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Prestressed fabricated lintels

27	110 x 75mm Lintels in lengths not exceeding 3m	m	19	
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GRANITE COUNTER TOPS AND VANITY SLABS

KITCHEN COUNTERS

30mm thick polished granite counters with all exposed edges large bevel edged, fixed to supports (elsewhere specified) using dabs of 100% black silicone adhesive along all supports with all joints filled with matching polyester resin glue. Granite surface to be sealed using an approved stone sealer, all in accordance with the manufacturer's recommendations.

28	U-shaped kitchen counter 9850 mm girth x 600mm wide including forming opening for single bowl sink	No	1	
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29	Vanity slab 4000mm long x 600mm wide including forming opening for single bowl sink	No	1	
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30	Vanity slab 3185mm long x 600mm wide including forming opening for single bowl sink	No	1	
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Bill No. 3
Masonry
Contract
Part C2: Pricing Data

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Building Work

Bill No. 3

Masonry

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Bill No. 3
Masonry
Contract
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Item No		Quantity	Rate	Amount R
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	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			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	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			

	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
31	In walls	m ²	18	
	<u>Approved waterproofing to shower floors and side walls</u>			
32	On shower floors and walls under tiles	m ²	63	
	<u>JOINT SEALANTS ETC</u>			
	<u>Polysulphide sealing compound including backing cord, bond breaker, primer, etc</u>			
33	10 x 10mm In vertical isolation joints	m	164	
	Carried Forward to Summary of Section No. 1			R
	Bill No. 4			
	Waterproofing			
	Contract			
	Part C2: Pricing Data			

Item No	Quantity	Rate	Amount R
BILL NO. 5			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
Plate nailed timber roof truss construction			
The following is applicable in respect of roof trusses:			
Trusses are at maximum 1,20m centres. Roof covering is 0,58mm Corrugated sheeting on 50 x 75mm purlins. Ceilings are 6,4mm skimmed gypsum plasterboard sheeting on 38 x 38mm branderling. 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			
Joinery			
Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc			
Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes			
Fixing			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete			
Decorative laminate finish			
Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish			

Carried to Collection			R
Bill No. 5 Carpentry and Joinery Contract Part C2: Pricing Data			

DOORS, ETC

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

34	44mm Thick single door size 813 x 2100mm high	No	9
35	44mm Thick single door size 600 x 2170mm high	No	6
36	44mm Thick single door size 915 x 2100mm high	No	2
37	44mm Thick double door size 915 x 2100mm high with and including an aluminium louvre size 450 x 450mm	No	1
38	44mm Thick single sliding door size 960 x 2400mm high including a sliding gear and steel angle cap size 1860 x 250mm high	No	1

JOINERY FITTINGS

General

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

KITCHEN CUPBOARDS

22mm Thick white melamine carcass base and shelves with masonite backing and black painted chipboard kickplates complete with and including timber bearers, melawood impact post formed wrapped doors fitted with appropriate hinges and all ironmongery

39	Floor standing cupboard 9850m girth x 600mm wide x 900mm high complete with back, divisions, drawers, filler pieces etc for supporting counter (counter measured elsewhere)	No	1
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BUDGETARY ALLOWANCES

Carried to Collection

Bill No. 5
Carpentry and Joinery
Contract
Part C2: Pricing Data

R

Joinery fittings

40 Provide a sum of R40 000.00 (Forty Thousand Rand)
for Joinery fittings including shower benches, shelving
etc

Item

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Bill No. 5
Carpentry and Joinery
Contract
Part C2: Pricing Data

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Building Work

Bill No. 5

Carpentry and Joinery

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Bill No. 5
Carpentry and Joinery
Contract
Part C2: Pricing Data

NAILED UP CEILINGS

12.5mm Vinyl Faced Gypsum Ceiling Panels, face-covered with white embossed vinyl, size 1200 x 600mm, laid on fire rated system 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.

- 42 Horizontal ceilings, including 38 x 38mm sawn softwood branderling at 450mm centres

m²

101

SUSPENDED CEILINGS

1200 x 600 x 15mm biologically absorbable mineral wool ceiling tiles, fire rated, size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on fire rated system exposed demountable T24 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

- 43 Horizontal ceilings suspended not exceeding 1m below concrete soffits

m²

440

Cornices to suspended ceilings

- 44 Pre-painted cornices, nailed and plugged

m

794

Carried to Collection

R

Bill No. 6
Ceilings, Partitions and Access Flooring
Contract
Part C2: Pricing Data

Section No. 1

Building Work

Bill No. 6

Ceilings, Partitions and Access Flooring

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Bill No. 6
Ceilings, Partitions and Access Flooring
Contract
Part C2: Pricing Data

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<u>LOCKS</u>					
<u>Grade 304 Stainless steel</u>					
48	Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel	No	6		
49	Security Deadlock with a Deadcase plate in the door frame with Master key functioning.	No	1		
<u>PUSH PLATES AND KICKING PLATES</u>					
<u>Grade 304 Stainless steel plates counter sunk screwed along edges at not exceeding 200mm centres</u>					
50	813 x 200mm Kick plate	No	9		
51	900 x 200mm Kick plate	No	3		
<u>HANDLES</u>					
<u>Grade 304 Stainless steel</u>					
52	Round D pull handle on 19 x 200 mm backplate	Pairs	9		
53	Round D pull handle on 19 x 300 mm backplate	Pairs			Rate Only
<u>DOOR CLOSERS</u>					
<u>Approved</u>					
54	Approved delayed action door closer	No	3		
<u>LETTERS, NAMEPLATES, ETC</u>					
<u>Stainless steel</u>					
55	152 x 152 x 2mm Thick engraved with female pictogram	No	1		
56	152 x 152 x 2mm Thick engraved with male pictogram	No	1		
57	152 x 152 x 2mm Thick engraved with paraplegic pictogram	No	1		
Carried to Collection				R	
Bill No. 7 Ironmongery Contract Part C2: Pricing Data					

58	152 x 152 x 2mm Thick engraved with kitchen and breakroom pictogram	No	1		
<u>SUNDRIES</u>					
<u>Approved</u>					
59	Stainless steel door stop	No	9		
60	Satin stainless steel robe hooks, plugged and screwed to the wall with stainless steel screws.	No	9		
<u>BATHROOM FITTINGS</u>					
61	Satin stainless steel recessed toilet roll holders for single or two rolls, plugged and screwed to the wall with stainless steel screws.	No	9		
62	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	2		
63	Satin stainless steel waste disposal bins with capacity of plus minus 40 litres and with a frame inside the dispenser to hold a liner, plugged and screwed to the wall with stainless steel screws.	No	2		
64	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		
65	Satin stainless steel towel rings, plugged and screwed to the wall with stainless steel screws.	No	8		
66	Satin stainless steel soap dispensers with a replaceable and refillable 1 litre container, cylinder lock , plugged and screwed to the wall with stainless steel screws.	No	5		
67	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	3		
Carried to Collection				R	
Bill No. 7 Ironmongery Contract Part C2: Pricing Data					

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Section No. 1

Building Work

Bill No. 7

Ironmongery

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Bill No. 7
Ironmongery
Contract
Part C2: Pricing Data

74	Frame for door size 960 x 2400mm high	No	1		
<u>ALUMINIUM SHOP FRONTS, DOORS, WINDOWS, ETC</u>					
<u>Aluminium shop fronts, doors, windows, etc</u>					
<u>Natural anodized aluminium doors preglazed with 6,5mm thick laminated safety glass complete with ironmongery and fittings including sealing with approved silicone sealant and fixed to brickwork or concrete</u>					
75	Double door size 1850 x 2150mm high with and including a fixed fanlight	No	1		
76	Double door size 1500 x 2600mm high with and including a fixed fanlight	No	1		
<u>Powder coated aluminium shopfronts preglazed with 6,5mm thick laminated safety glass complete with ironmongery and fittings including sealing with approved silicone sealant and fixed to brickwork or concrete</u>					
77	Shop front size 2765 x 3000mm high with and including double door size 1850 x 2150mm high	No	1		
78	Shop front size 2710 x 3000mm high with and including single door size 900 x 2150mm high	No	1		
79	Shop front size 4490 x 3000mm high with and including single door size 900 x 2150mm high	No	1		
80	Shop front size 6580 x 3000mm high	No	1		
Carried to Collection				R	
Bill No. 8 Metalwork Contract Part C2: Pricing Data					

Section No. 1

Building Work

Bill No. 8

Metalwork

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Bill No. 8
Metalwork
Contract
Part C2: Pricing Data

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FLOOR TILING

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

86 On floors and landings m² 541

87 Skirting 100mm high m 397

48 x 48mm Unglazed ceramic mosaic tiles (fixed with adhesive to screed (screed measured elsewhere) and flush pointed with an approved grout

88 On screeded floors to falls m² 8

Carried to Collection

R

Bill No. 10
Tiling
Contract
Part C2: Pricing Data

Section No. 1

Building Work

Bill No. 10

Tiling

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Bill No. 10
Tiling
Contract
Part C2: Pricing Data

R

Item No	Quantity	Rate	Amount R
<u>BILL NO. 11</u>			
<u>PLUMBING AND DRAINAGE</u>			
<u>PREAMBLES</u>			
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			
<u>SUPPLEMENTARY PREAMBLES</u>			
Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings unless hailguards are allowed for in the bills of quantities			
<u>Stainless steel basins, sinks, wash troughs, urinals, etc</u>			
Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)			
Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)			
Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)			
Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable			
<u>Waste unions</u>			
Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings			
<u>Sealing of edges</u>			
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone			
Carried to Collection			R
Bill No. 11 Plumbing and Drainage Contract Part C2: Pricing Data			

uPVC pipes and fittings

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

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

uPVC pressure pipes and fittings

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

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

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

Copper pipes

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

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

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

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Bill No. 11
Plumbing and Drainage
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All pipes suspended from concrete slabs, roof, ceiling, etc, shall be deemed to include in the rates all necessary hanger brackets, threaded rod (irrespective of the suspension length), nuts, washers, anchors and drilling of holes in the concrete slab.

Reducing fittings

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

Fixing of pipes

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

Paper wrapping to pipes

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

Disinfection of water pipework

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

Petrolatum anti-corrosion tape

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

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

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

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Plumbing and Drainage
Contract
Part C2: Pricing Data

R

Laying, backfilling, bedding, etc of pipes

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

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

SANS 1200L : Medium-pressure pipelines
 SANS 1200LD : Sewers
 SANS 1200LE : Stormwater drainage

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

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

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

General

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

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

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

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

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

Exposed concrete surfaces

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

Excavations

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

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

As-built drawings

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

SOIL DRAINAGE

Vitrified clay gulleys

- 89 Gulley not exceeding 1m deep to invert comprising 100mm diameter vitrified clay gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in (3:1) cement mortar

No

2

SANITARY FITTINGS

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Bill No. 11
 Plumbing and Drainage
 Contract
 Part C2: Pricing Data

	<u>1,6mm Stainless steel type 304 (18/10)</u>				
90	Stainless steel double end bowl inset sink, overall size 1160 x 460mm wide with two 340 x 370 x 150mm deep bowl, fitted onto cupboard (elsewhere measured) including 38mm waste fitting and PVC trap (trap elsewhere measured).	No	2		
	<u>White glazed vitreous china</u>				
91	Vitreous china close coupled suite colour White , comprising 90° outlet open rim pan with matching 9 litre front single flush cistern including lid and fitments and Thermoset seat.	No	8		
92	Paraplegic vitreous china wall hung paraplegic back inlet washdown suite colour White, fixed on and including floor bracket comprising 90° outlet open rim back inlet pan with exposed back inlet flushvalve (elsewhere measured) and double flap wooden seat	No	1		
93	Vitreous china lavatory basin, size 510 x 405mm with one taphole including integrated overflow and chainstay hole bolted to wall with two x 10mm bolts and including universal half pedestal with hanger springs and sealed with silicone sealant where basin meets wall.	No	1		
94	Vitreous china drop-in vanity basin colour white , size 420 x 420mm	No	7		
95	Vandal Resistant Urinal with automatic flush sensors or manual flush valve	No	4		
	<u>Acrylic</u>				
96	1000 x 1000 x 150mm shower tray with waste outlet, bedded in position	No	8		
97	5mm Cast Acrylic Perspex saloon doors (Colour: Frosted White) or 4mm Compact High Pressure Laminate (colour White) slotted in to the extrusion and a nylon hinge system. Overall size 900 x 1800mm high	No	8		
	<u>Floor drain</u>				
98	Floor drain square brass including trap	No	8		
Carried to Collection					R
Bill No. 11 Plumbing and Drainage Contract Part C2: Pricing Data					

WASTE UNIONS ETC

99 38mm Bath or sink waste union

No

2

TRAPS ETC

100 40mm Deep seal "P" or "S" trap

No

2

101 Chromium plated bottle trap

No

7

Brass

102 40mm rough brass shower P trap with shallow seal and chrome plated square grating.

No

1

TAPS, VALVES, ETC

103 15mm Angle valve

No

2

104 15mm ball type angle valve.

No

8

105 15mm Chrome plated single lever basin mixer with square type handles and cast fixed spout. SANS 226

No

7

106 15mm Chrome plated self-closing push button metering spout, pillar tap with non-hold open feature for cold water only

No

1

107 Medical elbow action pillar tap with high waist or equal approved, chrome finish.

No

1

108 15mm chrome plated deck mounted sink mixer with overarm swivel outlet and adjustable flanges

No

2

109 15mm chrome plated wall mounted underwall shower mixer

No

8

110 Vandal Proof Shower Rose chrome finish

No

8

111 15mm Ø BSP built-in sleeve, brass urinal flush valve with internal flow control, strainer and no-hold feature for single bowl urinal.

No

4

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Bill No. 11
Plumbing and Drainage
Contract
Part C2: Pricing Data

112	25mm diameter chrome flush valve for WC or equal approved for concealed installation with push button actuator, 1,2 - 5,0 bar flow pressure, flow rate adjustment, including 25mm supply pipe, stop valve, flush pipe and 300mm extension pipe to WC.	No	9
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Plumbing and Drainage

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Bill No. 11

Plumbing and Drainage

Contract

Part C2: Pricing Data

Item No		Quantity	Rate	Amount R
<u>BILL NO. 12</u>				
<u>GLAZING</u>				
<u>PREAMBLES</u>				
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				

<u>GLAZING TO STEEL WITH PUTTY</u>				
<u>4mm Clear float glass</u>				
113	Panes not exceeding 0,1 m2	m²		Rate Only
114	Panes exceeding 0,5m2 and not exceeding 2m2	m²		Rate Only
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<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>				
115	Mirror size 600 x 900mm high	No	6	
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Bill No. 12				
Glazing				
Contract				
Part C2: Pricing Data				

PAINTWORK, ETC TO NEW WORK ON

FLOATED PLASTER SURFACES WITH

One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on

116	Internal walls	m ²	498
117	Narrow widths	m ²	20

METAL SURFACES WITH

Spot priming defects in pre-primed surfaces with zinc phosphate metal primer, one coat universal undercoat and two coats super universal high gloss enamel paint on steel

118	On door frames	m ²	5
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WOOD SURFACES WITH:

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

119	Doors	m ²	30
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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

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R

Bill No. 13
Paintwork
Contract
Part C2: Pricing Data

	Surfaces shall be thoroughly washed down to remove dirt and other contaminants and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler, and sanded smooth			
	Previously painted metal surfaces			
	Surfaces shall be thoroughly rubbed and cleaned down to remove dirt and other contaminants and sanded lightly to provide a key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and any rust encountered shall be removed			
	Previously painted wood surfaces			
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a filler as described and sanded smooth			
	FLOATED PLASTER SURFACES WITH			
	General			
	Prepare and repair as specified, brush to remove all loose contaminants, rinse and apply one coat alkali resistant primer to bare substrate areas, one coat universal undercoat and two coats non-drip polyurethane enamel paint on existing alkyd-based painted surfaces			
	<u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u>			
120	Internal walls	m ²	315	
	METAL SURFACES WITH			
	<u>One coat super universal enamel paint on work in sound condition on steel</u>			
121	Door frames	m ²		Rate Only
	<u>WOOD SURFACES WITH:</u>			
	Carried to Collection		R	
	Bill No. 13 Paintwork Contract Part C2: Pricing Data			

122	<u>Remove all loose and flaking paint to sound substrate, stop, fill holes and cracks with wood filler, sand down, spot prime bare wood with primer for wood and apply one coat universal undercoat and two coats high gloss enamel paint on existing alkyd-based paint surfaces on:</u>	m ²				Rate Only
	Doors					

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Building Work

Bill No. 13

Paintwork

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Bill No. 13
Paintwork
Contract
Part C2: Pricing Data

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

PRASA PERWAY DEPOT ELECTRICAL PROVISIONAL BOQ					
LV Reticulation					
Item	Description	Unit	QTY	Cost	Total Cost
	<p style="text-align: center;">Distribution Boards</p> <p>Refurbish the following distribution boards, including all equipment, complete with all accessories. Installation shall include fixing, accessories and</p> <p>The price shall include for all fixing materials, circuit terminations, lugs, cable straps and any other items necessary for the complete installation. The price shall also include liaison with the board manufacturer, obtaining shop drawings for approval by the engineer, and the preparation and provision of detailed legend cards, as per the specification.</p>				
1	Main Distribution Board Refurb - PC	Lot	1	R150 000,00	R150 000,00
	<p style="text-align: center;">Power Cabling</p> <p>Supply and install the following cables laid on cable tray, pulled in a sleeve or in a trench, including all fixings and accessories. The cables shall be 600/1000V/ PVC/SWA/PVC/ECC with copper conductors. Complete with terminations</p>				
2	50mm ² x 4 core ecc cable	m	150		
	<p style="text-align: center;">Standby Generator</p> <p>Supply, Rig and Install following Standby Generator, including all equipment, complete with all accessories. Installation shall include fixing, plinth, accessories and earthing.</p>				
3	Containerized 200kVA complete with Day tank and Automatic Transfer Switch and Plinth	Lot			
4	Full Tank of Diesel upon Commissioning	Lot			
Total Ex VAT					

PRASA PERWAY DEPOT ELECTRICAL PROVISIONAL BOQ					
LIGHTING					
Item	Description	Unit	QTY	Cost	Total Cost
	LIGHTING				
1	16 Amp, single lever light Switch - white	Lot	9		
2	5 Amp, 3 pin, unswitched socket outlet to fit deep round conduit boxes	Lot	133		
3	LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed	Lot	113		
4	LED panel Sidelift flicker free driver + PMMA LG + Prisma Diffuser - 4000 Lumens - 600x600 Recessed with Battery Backup	Lot	10		
5	LED Downlighter glare free recessed in ceiling or concrete box IP66 rated. 4000K	Lot	10		
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	15		
7	Concrete box for recessed downlighter in concrete slab	Lot	10		
8	Daylight switch and 3 phase 20A contactor	Lot	1		
9	Exit Sign/Running Man c/w battery backup including lamps	Lot	2		
10	2,5mm² x 3 (Red, Black & Green) - Housewire	m	2500		
11	25mm diameter PVC conduit	m	3000		
12	50mm PVC Round Boxes in ceiling	Lot	300		
13	100x50 Steel Boxes chased in wall	Lot	15		
Total Ex VAT					

PRASA PERWAY DEPOT ELECTRICAL PROVISIONAL BOQ					
SMALL POWER					
Item	Description	Unit	QTY	Cost	Total Cost
	SMALL POWER				
1	16 Amp, single Switched Socket Outlet - white including 4x4 wall box chased	No	25		
2	16 Amp, single Switched Socket Outlet - white on Power Skirting	No	30		
3	Cluster box complete with 2 x 16A Outlets, 2 x Data outlets	No	1		
4	Recessed Floor box complete with 2 x 16A Outlets, 2 x Data outlets	No	1		
5	20 Amp, DP Isolator - complete with conduit to outlet box below- including 4x4 wall box chased Hydroboils and Handdryers	No	5		
6	20 Amp, DP Isolator in ceiling void with indication lamp - complete with 4x4 Box for Gyser	No	2		
7	20 Amp, DP Waterproof Isolator surface mounted on wall in 100x100 Box - complete with 4x4 Box for Air Conditioning Units	No	10		
8	20 Amp, DP Isolator in ceiling void with indication lamp - complete with 4x4 Box for FANS	No	8		
9	4mm ² x 3 (Red, Black & Green) - Housewire	m	8200		
10	25mm diameter PVC conduit	m	5000		
11	2 compartment PVC Power Skirting	m	50		
12	2 compartment power PVC skirting Internal Bends	Lot	2		
13	2 compartment power PVC skirting End Caps	Lot	6		
14	2 compartment power PVC skirting TEES	Lot	1		
15	200mm wide medium duty wire mesh complete with hangers and accessories installed in ceiling void	m	100		
16	200mm wide P8000 trunking complete with hangers, covers and accessories installed in ceiling void	m	100		
17	500VA single phase UPS	Lot	9		

18	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		
Total Ex VAT					

PRASA PERWAY DEPOT ELECTRICAL PROVISIONAL BOQ		
SUMMARY		
Item	Description	Cost
1	LV Reticulation	
2	Lighting	
3	Small Power	
Sub Total Ex VAT		
VAT @ 15%		
Total Inc VAT		

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

ITEM NO	DESCRIPTION	UNIT	QTY	Rate Only	AMOUNT
	SECTION NO. 5 BILL NO. 1 HVAC INSTALLATION Supply and install the following wall mounted extraction fans to be controlled by a presence sensor with a run on timer complete with filters where relevant electronic and electrical wiring up to isolator supplied by electrical contractor, speed controllers, flexible canvas connection, support brackets, AND ALL NECESSARY MOUNTING ACCESSORIES				
1,0					
1,1	FAN EF-01 - 60 l/s wall mounted	no	1		
1,2	FAN EF-02 - 174 l/s wall mounted	no	1		
1,3	FAN EF-03 - 201 l/s wall mounted	no	3		
1,4	FAN EF-04 - 277 l/s wall mounted	no	3		
2,0	Supply and install the following AC units (DX system) , complete with matching refrigerant tubing, condensate drainage, mounting brackets, thermostats, remote controllers, electronic and electrical wiring upto isolator supplied by electrical contractor and ALL MOUNTING ACCESSORIES NECESSARY				
2,1	Midwall, cooling load 3.0kW, heating load 3.2kW	no	1		
2,2	Cassette Units, cooling load 7.0kW heating load 8.0kW	no	1		
2,3	Cassette Units, cooling load 12.0kW heating load 12.0kW	no	3		
2,4	Dia 32mm uPVC drainage piping including bends	m	40		
2,5	200mm wide heavy duty welded wire mesh including supports	m	40		
2,6	Insulated refrigerant piping and approved refrigerant gas as per manufacture's specification and drawing provided	Item	1		
3,0	General				
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		
TOTAL					
VAT @ 15%					
GRAND TOTAL					

ITEM NO.	DESCRIPTION	UNIT	QTY	TOTAL RATE	AMOUNT R c
	SECTION NO. 5 BILL NO. 2 FIRE INSTALLATION				
1,0	General				
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		
2,0	Fire Plan				
	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.				
	Fire Hose Reels				
2,1	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.	2		
	Install	No.	2		
2,2	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 25mm	m	90		
3,0	Fire extinguishers				
3,1	Fire extinguishers complete with supports & fittings. 4,5kg DCP fire extinguishers				
	Supply	No.	4		
	Install	No.	4		
3,2	Fire extinguishers complete with supports & fittings. 5kg CO2 fire extinguishers				
	Supply	No.	2		
	Install	No.	2		
4,0	Fire blankets				
	Fire blankets nominal size 1200 x 1200 in cover with quick release mechanism. Minimum weight 430 gr/m², ignition time 13min and Max temp.550°C.	No.	1		

5,0	<u>Statutory Fire Signage</u>				
	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.				
5,1	E1/E2 (190mm high)	No.	4		
5,2	E3 (190mm high)	No.	2		
5,3	E6 (190mm high)	No.	1		
5,4	E16/E17 (190mm high)	No.	2		
5,5	F4 (190mm high)	No.	2		
5,6	F5/6 (190mm high)	No.	2		
Total to Summary Page					
vat 15%					
Grand Total					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	SECTION NO. 5 BILL NO. 3 PLUMBING AND DRAINAGE 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. HOT & COLD WATER PIPING 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.				
1	PIPING - COPPER				
1.1	Ø28mm pipe	m	50		
1.2	Ø22mm pipe	m	40		
1.3	Ø15mm pipe	m	250		
2	FITTINGS				
	Extra over copper pipework for capillary type soldered fittings				
2,1	Ø22mm Equal T-piece	No	16		
2,2	Ø28mm Elbow: 90°	No	4		
2,3	Ø22mm Elbow: 90°	No	8		
2,4	Ø15mm Elbow: 90°	No	95		
2,5	Reducer: Ø28mm x Ø22mm	No	2		
2,60	Reducer: Ø22mm x Ø15mm	No	30		
2,7	Pipe clamps and hangers	Sum	1		
2,8	Hot water pipe insulation	Sum	1		

3	VALVES - COPPER				
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	6		
3.3	Flexible connector to sanitary fittings	No	49		
3.4	15mm diameter stopcock/angle valve on cold and hot water pipe to sanitary appliance or sink	No	49		
4	ELECTRIC GEYSER Supply and install a vertical electric water geyser , mounted in ceiling void, complete with copper piping, pressure control valves, draincock, vaccum breakers, thermostat, expansion relief valve, strainers, lever ball valves, drip tray, hot water pipe insulation, mixing valve and all neccesary accesories and fttings, as specified Capacity: 150 litres Element Rating: 3 kW	Set	2		
5	HYDROBOIL HydroBoil 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: 1.5 kW	Set	1		
5	UNDERBASIN ELECTRIC GEYSER Supply and install an underbasin electric water geyser , complete with copper piping, pressure control valves, draincock, vaccum breakers, thermostat, expansion relief valve, strainers, lever ball valves, hot water pipe insulation, mixing valve and all neccesary accesories and fttings, as indicated on the Tender drawings. Capacity: 10 litres Element Rating: 1.5 kW	Set	1		
SUBTOTAL					

ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<p>SECTION NO. 5 BILL NO. 3 PLUMBING AND DRAINAGE</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>SANITARY DRAINAGE PIPING Polyvinyl Chloride (PVC) pipe including couplers in the running length, installed in accordance with SANS 10400 and SANS 10252-2:2004</p> <p>1 PIPING</p> <p>1.1 Ø50mm uPVC pipe m 66</p> <p>1.2 Ø110mm uPVC pipe m 30</p> <p>2 FITTINGS</p> <p>2.1 Ø50mm fitting; 90°elbow No 44</p> <p>2.2 Ø110mm fitting; 45°elbow No 18</p> <p>2.3 Ø110mm x Ø110mm x Ø110mm fitting; 87.5° swept entry, lateral branch junction No 18</p> <p>2.4 Ø50mm vent one way valve No 12</p> <p>3 WASTE TRAPS</p> <p>3.1 40mm flexi rubber "P" trap complete with coupling clamps. No 14</p> <p>4 AS BUILT DRAWINGS 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</p> <p>4.1 Sum 1</p> <p>5 Stripping of existing plumbing and drainage Sum 1</p> <p>6 OTHER Any other items required for the successful completion of the work but not included in this bill of quantities. <i>Please specify:</i> (a) (b)</p>				
	SUBTOTAL				
	TOTAL CARRIED FORWARD TO SUMMARY				

PRASA PERWAY BUILDING MECHANICAL PROVISIONAL BOQ

SUMMARY

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

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

PRASA PERWAY DEPOT ELECTRONICS PROVISIONAL BOQ					
FIRE DETECTION					
Item	Description	Unit	QTY	Cost	Total Cost
	Fire Detection				
1	Addressable Smoke Detectors	Lot	11		
2	Addressable Smoke Detectors + Void LED	Lot	6		
3	Addressable Heat Detectors	Lot	1		
4	Addressable Manual Call Point (Breakglass)	Lot	3		
5	Addressable Relay Unit	Lot	1		
6	Addressable Loop Beacon	Lot	4		
7	Addressable Loop Sounder	m	2		
8	Power Supply 24V	Lot	2		
9	Fire Cables - PH30/30 minutes rated	m	500		
10	Fire Cables - PH120/120 minutes rated	m	100		
11	4 Loop Fire Panel	Lot	1		
12	Installation & Commissioning	Lot	1		
Total Ex VAT					

PRASA PERWAY DEPOT ELECTRONICS PROVISIONAL BOQ					
EQUIPMENT					
Item	Description	Unit	QTY	Cost	Total Cost
	Equipment				
1	Digital Voice Evac/PA System compliant with Prasa Railcom System complete with 10 x 30W Internal Speakers on ceilings. Include 43U Mounting Rack	No	1		
2	PH30 Voice Evacuation Cabling including IP66 Rated Junction Boxes	m	120		
3	Integration of Detection System with other Services/System - Engineer AutoFill	No	1		
4	Intrusion Detection System with Infrared Motion sensors in Ticket Offices complete with 8 zone control panel, Led Keypad with Battery Backup, 6 x panic Buttons and Internal Siren	Lot	1		
Total Ex VAT					

PRASA PERWAY DEPOT ELECTRONICS PROVISIONAL BOQ

SUMMARY

Item	Description	Cost
1	Fire Detection	
2	Equipment	
Sub Total Ex VAT		
VAT @ 15%		
Total Inc VAT		

SUMMARY OF SECTION NO. 2: PERWAY BUILDING					
Section No		Page No		Amount R	
1	Building Work	52			
2	Electrical Work	53			
3	Mechanical Work	54			
4	Electronics	55			
	Sub Total			R	
TOTAL CARRIED TO FORM OF TENDER				R	
Contract Part C2: Pricing Data					

Refurbishments and Upgrades to Braamfontein Depot Prasa South Gauteng Region Corridor 3

Item No		Quantity	Rate	Amount R
1	Perway Building sub-total amount carried from final summary Section 3 (Excluding Value added Tax).	Item		
Carried to Final Summary				R
Section No. 3 Perway Building Contract Part C2: Pricing Data				

**SECTION NO.4 : RUNNING SHEDS/
PLATFORM EXTENSION**

SCHEDULE OF QUANTITIES**BRAAMFONTEIN PLATFORM EXTENSION**

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1,00	<u>SECTION 1:</u> <u>CONTRACTOR'S ESTABLISHMENT ON SITE</u> <u>AND GENERAL OBLIGATIONS</u>				
1.01	The Contractor's general obligations				
	(a) Fixed obligation	lump sum	1		
	(b) Value-related obligations	lump sum	1		
	(c) Time-related obligations	Months	2		
TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE OF QUANTITIES
BRAAMFONTEIN PLATFORM EXTENSION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION 2:</u>				
2,00	<u>PLATFORM EXTENSION</u>				
2.01	Cut existing weld on platform mesh	m	1650,00		
2.02	Remove clips on the grating	no	1600,00		
2.03	Supply and install 300 wide RS 50 Grating, to be welded in the middle	m ²	300,00		
2.04	Weld 6mm Fillet weld all-round at the connections	m	1650,00		
2.05	Replace clips	no	1600,00		
2.06	Replace the mesh by welding it back	m	1650,00		
TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE OF QUANTITIES
BRAAMFONTEIN PLATFORM EXTENSION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION 3:</u>				
3,00	<u>HAND RAILS</u>				
3.01	Supply 120mm diameter, 10mm thick Circular Base plates	no	1650		
3.02	Supply 60mm diameter x 4 mm thickness, 200mm long pipes	no	1650		
3.03	Cut a hole in the platform, and bolt the base plate, with the pipe protruding on the underside	no	1650		
3.04	Provide handrails to be movable, to be slotted in the pipes provided	m	1650		
3.05	Welding of all members as per details	Sum	1		
TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE OF QUANTITIES
BRAAMFONTEIN PLATFORM EXTENSION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
4,00	<u>SECTION 4:</u> <u>MOVABLE PIT COVERS</u>				
4.01	Supply and install Movable Pit covers Supply and install 5 sets of Steel Flat Grid, 1065mm wide by 4m, cut to lengths, complete with cross bars and bearing bars	no	5		
TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE OF QUANTITIES
BRAAMFONTEIN PLATFORM EXTENSION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION 5:</u>				
5,00	<u>VOLTAGE DETECTOR</u>				
5.1	Supply and install PHE/G dc Voltage Detector	item	4		
5.2	Storage Bag VD PHE/G	item	4		
5.3	Calibration of Voltage Detector	Item	4		
TOTAL CARRIED FORWARD TO SUMMARY					

SCHEDULE OF QUANTITIES
BRAAMFONTEIN PLATFORM EXTENSION

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>SECTION 6:</u>				
6,00	<u>VOLTAGE INDICATOR</u>				
6.1	Supply and install PHE/G d.c. Voltage Indicator/ Display				
6.2	Supply and install PHE/G d.c. Voltage Indicator/ Display 160mm as per specifications below	item	4		
	No of lines 4 Characters per line 5 (HH:MM) Charavter height - mm 160 Color intensity - Red - 1000Mcd HB Maximum viewing Distance +-m 55 Dimensions +- 700mmx230mm Full indoor and outdoor Yes Wall mount brackets included 220VAC YES				
TOTAL CARRIED FORWARD TO SUMMARY					

SUMMARY
BRAAMFONTEIN PLATFORM EXTENSION

ITEM NO	DESCRIPTION	AMOUNT
	<u>SECTION 1:</u>	
1	Preliminary and General	
2	Plaform Extension	
3	Handrails	
4	Movable Pit Covers	
5	Voltage Detector	
6	Voltage Indicator	
TOTAL CARRIED FORWARD TO SUMMARY		

Refurbishments and Upgrades to Braamfontein Depot Prasa South Gauteng Region Corridor 3

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

Section No	Page No	Amount R
FINAL SUMMARY		
1	20	
2	21	
3	22	
4	23	
Sub Total		R
<u>CONTINGENCY</u>		
ADD: Construction Contingency (10%)	Item	
ADD: Value added Tax at 15%		R
TOTAL CARRIED TO FORM OF TENDER		R
Contract Part C2: Pricing Data		