

Item No	Unit	Quantity	Rate	Amount
<u>PART C2.2 PROVISIONAL BILL OF QUANTITIES</u>				
<u>SECTION NO.1</u>				
<u>BILL NO. 1</u>				
<u>PRELIMINARIES</u>				
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>				
<p>The JBCC Principal Building Agreement (May 2018 Edition 6.2) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The following documents form an integral part of this agreement:</p> <p>a) JBCC Principal Building Agreement Contract Data Edition 6.2 May 2018</p>				
<u>PREAMBLES FOR TRADES</u>				
<p>The Model Preambles for Trades (September 2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.</p> <p>Tenderers are advised to study the GP ASC Rev 1 (General specifications of materials and methods to be used for building contracts) before pricing the bill. The document is readily available at GDID offices for inspection as and when required.</p> <p>Tenderers are Iso advised to refer to Part C3.1 for Supplementary preambles on other applicable specifications.</p>				
Carried to Collection			R	
Section No. 1 Bill No. 1 PRELIMINARIES JBCC 6.2				

Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles

The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles

STANDARD SYSTEM OF MEASURING BUILDING WORK

The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (seventh edition, 2015) published by the Association of South African Quantity Surveyors (ASAQS)

MEANING OF TERMS "TENDER / TENDERER"

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

PRELIMINARIES

The JBCC General Preliminaries Code 2103, May 2005 for use with the JBCC Principal Building Agreement Edition 6.2, May 2018 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

The clauses in the above-mentioned documents are herein after referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above-mentioned documents

Where any item is not relevant to this agreement such item is marked N/A (signifying "not applicable")

PRICING OF PRELIMINARIES

Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed (F), Value Related (V) or Time Related (T) and the respective amounts entered in the spaces provided under each item.

Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities

CPA WORK GROUP

Unless otherwise stated all items in this bill will be Work Group 190

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

A1 DEFINITIONS AND INTERPRETATION

Clause 1.0 Clause 1.1 Definition of "Commencement Date" is added:

COMMENCEMENT DATE means the date that the agreement, made in terms of the Form of Offer and Acceptance, comes into effect.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

Clause 1.0 Clause 1.1 Definition of "Construction Guarantee" is amended by replacing it with the following:

CONSTRUCTION GUARANTEE means a guarantee at call obtained by the contractor from an institution approved by the employer in terms of the employer's construction guarantee form as selected in the schedule.

Clause 1.1 Definition of "Construction Period" is amended by replacing it with the following:

CONSTRUCTION PERIOD means the period commencing on the date of site hand over and ending on the date of practical completion.

Clause 1.1 Definition of "Corrupt Practice" is added:

CORRUPT PRATICE means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement or in the contract execution.

Clause 1.1 Definition of "Fraudulent Practice" is added:

FRAUDULENT PRACTICE means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practice among the tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitative levels and to deprive the tenderer of the benefits of free and open competition.

Clause 1.1 Definition of "Interest" is amended by replacing it with the following:

INTEREST means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

Clause 1.1 Definition of "Principal Agent" is amended by replacing it with the following:

PRINCIPAL AGENT means the person or entity appointed by the employer and named in the schedule. In the event of a principal agent not being appointed, then all the duties and obligations of a principal agent as detailed in the agreement shall be fulfilled by a representative of the employer as named in the schedule.

Clause 1.1 Definition of "Security" is amended by replacing it with the following:

SECURITY means the form of security provided by the employer or contractor, as stated in the schedule, from which the contractor or employer may recover expense or loss.

Clause 1.6 is amended as follows: Any notice given may be delivered by hand, sent by prepaid registered post or telefax. Notice shall be presumed to have been duly given when:

Clause 1.6.4 is amended by replacing it with the following:

No clause

1 Fixed:.....Value:.....Time:.....

Item

OBJECTIVE AND PREPARATION

A2 OFFER AND ACCEPTANCE

Clause 2.0

2 Fixed:.....Value:.....Time:.....

Item

A3 DOCUMENTS

Clause 3.0

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

	<p>Clause 3.7 is amended by the addition of the following: The contractor shall supply and keep a copy of the JBCC Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the site, to which the employer, principal agent and agents shall have access at all times. Clause 3.10 is amended by replacing the second reference to "principal agent" with the word "employer".</p>				
3	<p>Fixed:.....Value:.....Time:.....</p>		Item		
	<p><u>A4 DESIGN RESPONSIBILITY</u></p>				
	<p><u>Clause 4.0</u></p>				
	<p>Clause 4.3 is amended by replacing it with the following: No clause</p>				
4	<p>Fixed:.....Value:.....Time:.....</p>		Item		
	<p><u>A5 EMPLOYERS AGENTS</u></p>				
	<p><u>Clause 5.0</u></p>				
	<p>Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8</p>				
5	<p>Fixed:.....Value:.....Time:.....</p>		Item		
	<p><u>A6 SITE REPRESENTATIVE</u></p>				
	<p><u>Clause 6.0</u></p>				
6	<p>Fixed:.....Value:.....Time:.....</p>		Item		
	<p><u>A7 COMPLIANCE WITH REGULATIONS</u></p>				
	<p>Clause 7.0</p>				
	<p>Carried to Collection</p>			R	
	<p>Section No. 1</p>				
	<p>Bill No. 1</p>				
	<p>PRELIMINARIES JBCC 6.2</p>				

Note: A separate clause has been included in Section C : Specific Preliminaries of the bills of quantities / lump sum document for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification.

7 Fixed:.....Value:.....Time:.....

A8 WORKS RISK

Clause 8.0

8 Fixed:.....Value:.....Time:.....

A9 INDEMNITIES

Clause 9.0

Clause 9.0 is amended by adding sub-clause 9.1.4: The contractor indemnifies and holds harmless the employer against all liability, losses, claims, damages, penalties, actions, proceedings or judgements (collectively referred to as "Losses") arising from any infringement of letters, patent design, trademark, name, copyright or other protected rights in respect of any machine, plant, work, materials, thing, system or method of using, fixing, working or arrangement used or fixed or supplied by the contractor, but such indemnity shall not cover any use of the equipment of part thereof otherwise than in accordance with the provisions of the specification. All payments and royalties payable in one sum or otherwise shall be included by the contractor in the price and shall be paid by him to those to whom they may be payable. The contractor shall reimburse the employer for all legal and other costs and expenses, including without limitation attorney's fees on attorney-client scale incurred by the employer in connection with investigation, defending or settling any Losses in connection with pending or threatening litigation in which the employer is a party.

9 Fixed:.....Value:.....Time:.....

A10 WORKS INSURANCES

Clause 10.0

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

Item

Item

Item

R

Clause 10.0 is amended by the addition of the following clauses:

10.5 Damage to the Works

(a) Without in any way limiting the contractors obligations in terms of the contract, the contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the Employer against any such damage. The Contractor shall take such precautions and security measures and other steps for the protection and security of the works as the contractor may deem necessary.

(b) The Contractor shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works.

(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6

(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof.

10.6 Injury to Persons or loss of or damage to Properties

(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable.

(c) The employer shall carry the risk of damage to or destruction of the works and material paid for by the employer that is the result of the excepted risks as set out in 10.6

(d) Where the employer bears the risk in terms of this contract, the contractor shall, if requested to do so, reinstate any damage or destroyed portions of the works and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof.

10.6 Injury to Persons or loss of or damage to Properties

(a) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable.

(b) The contractor shall be liable for and hereby indemnifies the employer against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person, arising out of or in the course of or by reason of the execution of the works unless due to any act or neglect of any person for whose actions the employer is legally liable.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

(c) The contractor shall, upon receiving a contract instruction from the principal agent, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the employer shall be entitled to cause it to be made good and to recover the cost thereof from the contractor or to deduct the same from amounts due to the contractor.

(d) The contractor shall be responsible for the protection and safety of such portions of the premises placed under his control by the employer for the purpose of executing the works until the issue of the certificate of practical completion.

(e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the contractor shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the works has been completed.

(f) The contractor shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the works.

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

The contractor shall, from the date of site handover until the date of the certificate of practical completion bear the full risk of and hereby indemnifies and holds harmless the employer against any damage to and/or destruction of the works consequent upon a catastrophic ground movement as mentioned above. The contractor shall take such precautions and security measures and other steps for the protection of the works as he may deem necessary.

When so instructed to do so by the principal agent, the contractor shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the works and to rebuild, restore, replace and/or repair the works, at the contractor's own costs.

10.7.2 Injury to persons or loss of or damage to property

The contractor shall be liable for and hereby indemnifies and holds harmless the employer against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above.

The contractor shall be liable for and hereby indemnifies the employer against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the site, whether belonging to or under the control of the employer or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the construction.

10.7.3 It is the responsibility of the contractor to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the contractor's obligations in terms of the contract, the contractor shall, within twenty-one (21) calendar days of the commencement date but before commencement of the works, submit to the employer proof of such insurance policy, if requested to do so.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

	<p>10.7.4 The employer shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the contractor's default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the contractor or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the employer and the contractor and for this purpose all these contracts shall be considered one indivisible whole.</p>				
10	<p>Fixed:.....Value:.....Time:.....</p> <p><u>A11 LIABILITY INSURANCES</u></p> <p>Clause 11.0</p>		Item		
11	<p>Fixed:.....Value:.....Time:.....</p> <p><u>A12 EFFECTING INSURANCES</u></p> <p>Clause 12.0</p>		Item		
12	<p>Fixed:.....Value:.....Time:.....</p> <p><u>A13. No clause</u></p>		Item		
13	<p>Fixed:.....Value:.....Time:.....</p> <p><u>A14 SECURITY</u></p> <p>Clause 14.0</p> <p>Sub clause 14.7.1 is deemed to be amended as follows: No interest will be paid on such amounts withheld.</p>		Item		
14	<p>Fixed:.....Value:.....Time:.....</p>		Item		
	<p>Carried to Collection</p> <p>Section No. 1 Bill No. 1 PRELIMINARIES JBCC 6.2</p>			R	

EXECUTION

A15 PREPARATION FOR AND EXECUTION OF THE WORKS

Clause 15.0

Clause 15.1 is amended by the addition of the following clause: 15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), the construction guarantee and insurances within ten (10) calendar days and prior to the site handover date.

Clause 15.2.1 is amended by replacing it with the following clause:

Give the contractor possession of the site only after the contractor complied with the terms of sub clause 15.1.4 and any other requirements as indicated in the schedule Clause 42.2.5

15 Fixed:.....Value:.....Time:.....

Item

A16 ACCESS TO THE WORKS

Clause 16.0

16 Fixed:.....Value:.....Time:.....

Item

A17 CONTRACT INSTRUCTIONS

Clause 17.0

17 Fixed:.....Value:.....Time:.....

Item

A18 SETTING OUT OF THE WORKS

Clause 18.0

Add sub-clause 18.5 The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

18 Fixed:.....Value:.....Time:.....

A19 ASSIGNMENT

Clause 19.0

19 Fixed:.....Value:.....Time:.....

A20 NOMINATED SUB-CONTRACTORS

Clause 20.0

Clause 20.1.3 is amended with replacing it with: No clause

20 Fixed:.....Value:.....Time:.....

A21 SELECTED SUBCONTRACTORS

Clause 21.0

Replace sub-clauses 21.1.2 to 21.1.4 and 21.2 to 21.6 with the following: The contractor and principal agent shall appoint a selected subcontractor in accordance with the CIDB practice note #7

21 Fixed:.....Value:.....Time:.....

A22 EMPLOYER'S DIRECT CONTRACTORS

Clause 22.0

22 Fixed:.....Value:.....Time:.....

A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS

Clause 23.0

23 Fixed:.....Value:.....Time:.....

COMPLETION

A24 PRACTICAL COMPLETION

Clause 24.0

Carried to Collection

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

Item

Item

Item

Item

Item

Item

R

24 Fixed:.....Value:.....Time:.....

A25 WORK'S COMPLETION

Clause 25.0

Add the following sub-clause 25.3.3: The contractor shall attend to defects during the works completion periods on a progressive basis, to the satisfaction of the principal agent and will not be permitted to wait until the end of the works completion period or until the amount of defects accumulate in order to attend to a comprehensive list of defects."

25 Fixed:.....Value:.....Time:.....

A26 FINAL COMPLETION

Clause 26.0

Add the following to the end of sub-clause 26.1.2: "All civil, electrical, electronic, Mechanical and other specialist installations are subject to a three hundred and sixty five (365) calendar days defects liability and maintenance period."

26 Fixed:.....Value:.....Time:.....

A27 LATENT DEFECTS LIABILITY PERIOD

Clause 27.0

27 Fixed:.....Value:.....Time:.....

A28 SECTIONAL COMPLETION

Clause 28.0

28 Fixed:.....Value:.....Time:.....

A29 REVISION OF DATE FOR PRACTICAL COMPLETION

Clause 29.0

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

Item

Item

Item

Item

Item

R

Clause 29.0 is amended by:- i) The addition of the following clauses:- Sub-clause 29.9 "Revision to the date for practical completion shall only be considered when work on the critical path of the agreed programme for the works is delayed." ii) Sub-clause 29.10 – Acceleration Sub-clause 29.10.1 "Irrespective of whether or not the principal agent rules that the contractor is entitled to an extension of time or a revision of the date for practical completion, the principal agent shall nevertheless, at any time, be entitled to instruct the contractor in writing to accelerate the progress of the remaining works to ensure that the works are completed by the original date for practical completion or revised date as the case may be." Sub-clause 29.10.2 "Upon receipt of such instruction, the contractor shall take all necessary steps to ensure that the works are completed timeously including the provision by him of additional resources, plant, manpower, etc and the working overtime or additional overtime beyond that contemplated at the time of tender (at all times adhering to the regulations and requirements of all authorities) and by all other adequate and proper means and methods. The contractor shall prove that such steps are being taken if called upon to do so." Sub-clause 29.10.3 "The contractor's entitlement to compensation arising out of or in respect of any revision to the date for practical completion that may have been granted by the principal agent or alternatively where the principal agent has instructed the contractor to accelerate, shall be adjudicated strictly in terms of clause 32."

29 Fixed:.....Value:.....Time:.....

Item

A30 PENALTY FOR NON-COMPLETION

Clause 30.0

Replace reference to sub-clause 36.3 at end of sentence with 36.0

30 Fixed:.....Value:.....Time:.....

Item

PAYMENT

A31 INTERIM PAYMENT TO THE CONTRACTOR

Clause 31.0

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

Notwithstanding this or any other clause, materials and goods stored on and off site shall not be included in the amount authorized for payment.

Replace sub-clause 31.5.2 with the following: Security adjustments in terms of sub-clause 14.0 and sub-clause 31.8

The first sentence of sub-clause 31.9 is deemed to be deleted and replaced with the following: The employer shall pay the contractor the amount certified within thirty (30) calendar days of the date of issue of the payment certificate, subject to the contractor giving the employer a tax invoice on the amount due

Delete the following in clause 31.12: "Payment shall be subject to the employer giving the contractor a tax invoice for the amount due."

A32 ADJUSTMENT TO THE CONTRACT VALUE

Clause 32.0

Adjustment to the contract value (Clause 32.0) Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract 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 final certificate, it will be in writing.

Sub-clause 32.5.1, 32.5.4 and 32.5.7 is amended by the addition of the following at the end of the sentence: ... due to no fault of the contractor.

31 Fixed:.....Value:.....Time:.....

Item

A33 RECOVERY OF EXPENSE AND LOSS

Clause 33.0

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

Clause 33.2 is amended by adding the following sub-clauses: 33.2.9 The contractor's failure or neglect to commence with the works on the dates prescribed in the contract. 33.2.10 The contractor's failure or neglect to proceed with the works in terms of the contract. 33.2.11 The contractor's failure or neglect for any reason to complete the works in accordance with the contract. 33.2.12 The contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract. 33.2.13 The contractor's estate being sequestrated or surrendered in terms of the Insolvency laws in force within the Republic of South Africa."

32 Fixed:.....Value:.....Time:.....

Item

A34 FINAL ACCOUNT AND FINAL PAYMENT

Clause 34.0

Clause 34.2 is amended by inserting # next to 34.2 The first sentence of Clause 34.10 is deemed to be deleted and replaced with the following: The employer shall pay to the contractor the amount certified for payment in the final payment certificate within thirty (30) calendar days of the date issue of the final payment certificate, subject to the contractor giving the employer a tax invoice for the amount due. Clause 34.13 is amended by deleting the words "subject to the employer giving the contractor a tax invoice for the amount due". Also replace "seven (7) calendar days" with "twenty one (21) calendar days".

33 Fixed:.....Value:.....Time:.....

Item

A35 PAYMENT TO OTHER PARTIES

Clause 35.0

34 Fixed:.....Value:.....Time:.....

Item

CANCELLATION

**A36 CANCELLATION BY EMPLOYER -
CONTRACTOR'S DEFAULT**

Clause 36.0

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

Add the following sub-clauses 36.1.3 to 36.1.5 under 36.1 to read as follows: The contractor's refusal or neglect to comply strictly with any of the conditions of contract. The contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa. The contractor, in the judgement of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

Replace clause 36.3 with the following: The employer may give notice of cancellation should the contractor remain in default for ten (10) working days after the date of issue of such a notice of default

35 Fixed:.....Value:.....Time:.....

Item

A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE

Clause 37.0

Clause 37.3.5 is amended as follows: Replace "ninety (90)" with "one hundred and twenty (120)".

36 Fixed:.....Value:.....Time:.....

Item

A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

37 Fixed:.....Value:.....Time:.....

Item

A39 CANCELLATION - CESSATION OF THE WORKS

Clause 39.0

Clause 39.3.5 is amended by the addition of the following at the end of the sentence: "within one hundred and twenty (120) working days of completion of such a report"

38 Fixed:.....Value:.....Time:.....

Item

DISPUTE

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

A40 DISPUTE SETTLEMENT

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years". Clause 40.6 is amended by removing the reference to: No clause

39 Fixed:.....Value:.....Time:.....

Item

SUBSTITUTE PROVISIONS

A41 STATE CLAUSES

Clause 41.0

Add in the Substitute Provisions (41.0 State Clauses) as clauses 36.7, 37.5 and 39.5, the following:
Notwithstanding any clause to the contrary, on cancellation of this agreement either by the employer or the contractor, or for any reason whatsoever, the contractor shall on written instruction, discontinue with the works on a stated date and withdraw himself from the site. The contractor shall not be entitled to refuse to withdraw from the works on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.

40 Fixed:.....Value:.....Time:.....

Item

CONTRACT VARIABLES

THE SCHEDULE (C1.2 CONTRACT DATA)

A42 PRE-TENDER INFORMATION

Clause 42.0

Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.

41 Fixed:.....Value:.....Time:.....

Item

SECTION B: JBCC PRELIMINARIES

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

B1.0 DEFINITIONS AND INTERPRETATION

B1.1 Definitions and interpretation

See also clause A1.0 of Section A for additional and/or amended definitions which shall apply equally to this Section.

42 Fixed:.....Value:.....Time:.....

Item

B2.0 DOCUMENTS

B2.1 Checking of documents

43 Fixed:.....Value:.....Time:.....

Item

B2.2 Provisional bills of quantities

44 Fixed:.....Value:.....Time:.....

Item

B2.3 Availability of construction documentation

45 Fixed:.....Value:.....Time:.....

Item

B2.4 Interests of agents

46 Fixed:.....Value:.....Time:.....

Item

B2.5 Priced documents

47 Fixed:.....Value:.....Time:.....

Item

B2.6 Tender submission

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance (C1.1)".

48 Fixed:.....Value:.....Time:.....

Item

B3.0 THE SITE

B3.1 Defined works area

49 Fixed:.....Value:.....Time:.....

Item

B3.2 Geotechnical investigation

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

50	Fixed:.....Value:.....Time:..... B3.3 Inspection of the site Tenderers shall complete the Site Inspection Certificate included in the tender documents and return the same with the tender submission.	Item		
51	Fixed:.....Value:.....Time:..... B3.4 Existing premises occupied	Item		
52	Fixed:.....Value:.....Time:..... B3.5 Previous work - dimensional accuracy	Item		
53	Fixed:.....Value:.....Time:..... B3.6 Previous work - defects	Item		
54	Fixed:.....Value:.....Time:..... B3.7 Services - known	Item		
55	Fixed:.....Value:.....Time:..... B3.8 Services - unknown	Item		
56	Fixed:.....Value:.....Time:..... B3.9 Protection of trees	Item		
57	Fixed:.....Value:.....Time:..... B3.10 Articles of value	Item		
58	Fixed:.....Value:.....Time:..... B3.11 Inspection of adjoining properties	Item		
59	Fixed:.....Value:.....Time:..... <u>B4.0 MANAGEMENT OF CONTRACT</u> B4.1 Management of the works	Item		
Carried to Collection			R	
Section No. 1 Bill No. 1 PRELIMINARIES JBCC 6.2				

60	Fixed:.....Value:.....Time:.....	Item		
	B4.2 Programme for the works			
61	Fixed:.....Value:.....Time:.....	Item		
	B4.3 Progress meetings			
62	Fixed:.....Value:.....Time:.....	Item		
	B4.4 Technical meetings			
63	Fixed:.....Value:.....Time:.....	Item		
	B4.5 Labour and plant records			
64	Fixed:.....Value:.....Time:.....	Item		
	<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
	B5.1 Samples of materials			
65	Fixed:.....Value:.....Time:.....	Item		
	B5.2 Workmanship samples			
66	Fixed:.....Value:.....Time:.....	Item		
	B5.3 Shop drawings			
67	Fixed:.....Value:.....Time:.....	Item		
	B5.4 Compliance with manufacturers instructions			
68	Fixed:.....Value:.....Time:.....	Item		
	<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
	B6.1 Deposits and fees			
69	Fixed:.....Value:.....Time:.....	Item		
	B6.2 Enclosure of the works			
70	Fixed:.....Value:.....Time:.....	Item		
	Carried to Collection		R	
	Section No. 1			
	Bill No. 1			
	PRELIMINARIES JBCC 6.2			

-24-

9.0 ATTENDANCE ON N/S SUBCONTRACTORS

B9.1 General attendance

81 Fixed:.....Value:.....Time:.....

Item

B9.2 Special attendance

82 Fixed:.....Value:.....Time:.....

Item

B9.3 Commissioning - fuel, water and electricity

83 Fixed:.....Value:.....Time:.....

Item

B10.0 FINANCIAL ASPECTS

B10.1 Statutory taxes, duties and levies

84 Fixed:.....Value:.....Time:.....

Item

B10.2 Payment for preliminaries

85 Fixed:.....Value:.....Time:.....

Item

B10.3 Adjustment of preliminaries

Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "in his priced bills of quantities / lump sum document submitted with his tender offer".

86 Fixed:.....Value:.....Time:.....

Item

B10.4 Payment certificate cash flow

87 Fixed:.....Value:.....Time:.....

Item

B11. GENERAL

B11.1 Protection of the works

88 Fixed:.....Value:.....Time:.....

Item

Carried to Collection

R

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

-26-

B12. SCHEDULE OF VARIABLES

B12.1 Schedule of variables

This schedule contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [] brackets.

12.1 PRE TENDER INFORMATION

12.1.1 Provisional Bills of Quantities

[2.2] The quantities are provisional YES

12.1.2 Availability of construction documentation

[2.3] Construction of documentation is complete YES

12.1.3 Interest of agents

[2.4] Details: NIL

12.1.4 Defined works area

[3.1] Details: The work area will be pointed out to the contractor by the principal agent to the contractor who will sign written acknowledgement therefore before commencing operations.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

12.1.5 Geotechnical investigation

[3.2] Details: A shallow geotechnical investigation has been carried out comprising of hand excavated trial pits, soils investigation, crack survey etc.

12.1.6 Existing premises occupied

[3.4] Specific requirements: The premises will be in use and occupied during the course of this contract. The contractor shall execute the works in such a manner as will least interfere with the general routine of the occupants of the premises and shall minimise any nuisance from dust, noise or other causes.

12.1.7 Previous work - dimensional accuracy

[3.5] Details: The contractor shall within four (4) weeks of the site handover date check the existing levels, lines, profiles and the like affecting the works and satisfy himself as to the dimensional accuracy of work previously executed. The contractor shall forthwith notify the supervisor of any inaccuracy.

12.1.8 Previous work - defects

[3.6] Details:

12.1.9 Services - known

[3.7] Details: Should the contractor encounter any existing services such as underground cables, pipes or sewer during the execution of the works he shall notify the principal agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the principal agent.

12.1.10 Protection of trees

[3.9] Specific requirements: Only those trees and shrubs indicated as such on the drawings shall be removed or cut back. The remainder of the trees and shrubs shall be left undamaged.

12.1.11 Inspection of adjoining properties

[3.11] Specific requirements:

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

12.1.12 Enclosure of the works

[6.2] Specific requirements: The contractor shall enclose the areas of work

12.1.13 Offices

[6.4.3] Specific requirements: The contractor shall provide, erect where directed, maintain and remove on completion of the works an meeting room size 8 x 3 x 3m high internally, tables, chairs and Air conditioning.

12.1.14 Main notice board

[6.5] Specific requirements: The Contractor shall provide, erect where directed, maintain and remove on completion of the works a notice board, size 2,44m wide and 2,89m high, according to the standard drawing available from the employer, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The lettering is to be 50mm and 100mm "sans serif" in ivory white on the blue background and in 100mm "sans serif" in navy blue on the ivory white background. The inscription, in one language only, which must bear the approval of the Principal Agent. No other names or notice boards may be erected without the written approval of the Principal Agent. Sketch drawings of all proposed names or notice boards must be submitted to the Principal Agent for approval, before being prepared and erected on site. These sketch drawings must not only show the full content of the proposed names or notice boards, but also the position and locality in which the boards will be erected.

12.1.15 Subcontractors' notice board

[6.6] Specific requirements: NIL

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

12.1.16 Water

[7.2] Option A (by contractor) YES

Option B (by employer - free of charge) NO

Option C (by b employer - metered) NO

12.1.17 Electricity

[7.3] Option A (by contractor) YES

Option B (by employer - free of charge) NO

Option C (by employer - metered) NO

12.1.18 Telecommunications

[7.4] Telephone.....YES

Facsimile.....YES

Mail.....YES

12.1.19 Ablution facilities

[7.5} Option A (by contractor) YES

Option B (by employer) NO

12.1.20 Protection of existing /sectionally occupied works

[11.2] Protection is required NO

12.1.21 Special attendance

[9.2] Subcontractor(1) details:

Subcontractor(2) details:

Subcontractor(3) details:

Subcontractor (4) details:

Carried to Collection

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

R

12.1.22 Protection of works

[11.1] Specific requirements: N/A

12.1.23 Disturbance

[11.5] Specific requirements: The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent.

12.1.24 Environmental disturbance

[11.6] Specific requirements: N/A

12.2 POST-TENDER INFORMATION

12.2.1 Payment of preliminaries

[10.2] Option A (pro-rated) YES / NO

Option B (calculated) YES / NO

12.2.2 Adjustment of preliminaries

[10.3] Option A (three categories) YES / NO

Option B (detailed breakdown) YES / NO

12.2.3 Additional agreed preliminaries items

Details: N/A

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.

Carried to Collection

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

R

C1 CONTRACT DRAWINGS

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.

100 Fixed:.....Value:.....Time:.....

Item

C2 GENERAL PREAMBLES

The document "General Specifications of materials, methods to be used for building contracts (GP ASC Rev 0)", shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.

101 Fixed:.....Value:.....Time:.....

Item

C3 IMPORTED MATERIALS AND EQUIPMENT

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer). Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable).

102 Fixed:.....Value:.....Time:.....

Item

C4 HIV/AIDS AWARENESS

It is required of the contractor to promote HIV/AIDS awareness in accordance with requirements of SANS 1921-6

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

C5 OCCUPATIONAL HEALTH AND SAFETY ACT

The contractor shall comply with all the requirements set out in the Construction Regulations, 2003 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 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.

103 Fixed:.....Value:.....Time:.....

Item

C6 LOCAL LABOUR AND BUILDING MATERIALS

C6.1 GENERAL

The contractor's attention is drawn to the Labour Intensive Methods and requirements incorporated in the tender documents. (C3.1).

All requirements of the aforesaid are to be priced hereunder; no additional items or extras to the contract in this regard will be entertained.

104 Fixed:.....Value:.....Time:.....

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

C6.2 LOCAL BUILDING MATERIALS

Preference shall be given to the supply of all materials produced or manufactured in Tembisa, Gauteng Province provided that: (a) Such materials comply in all respects with the specific requirements of SABS Standards. (b) The availability of such materials shall not adversely affect the desired progress of the specific works. (c) The use of such materials shall not constitute grounds for any claim for increased cost in respect thereof.

105 Fixed:.....Value:.....Time:.....

Item

Carried to Collection

R

Section No. 1
Bill No. 1
PRELIMINARIES JBCC 6.2

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

Carried Forward

R

Section No. 1

Bill No. 1

PRELIMINARIES JBCC 6.2

-36-

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u>			
<u>ALTERATIONS</u>			
<u>PREAMBLES</u>			
For preambles refer to "Model Preambles for Trades"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>View Site</u>			
Before submitting his tender the contractor shall 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 any variations of the contract sum in respect of the nature and extent of the work or damaged materials will be entertained			
Carried to Collection		R	
Section No. 2 Bill No. 1 ALTERATIONS			

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent.

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent.

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

REMOVAL OF EXISTING WORK

Taking out and removing doors, windows, etc, including thresholds, sills, etc (making good finishes elsewhere) and preparing existing door frame to receive new door (LI)

1	Timber single door and steel frame	No	7
2	Glazed steel window not exceeding 2,5m ²	No	12
<u>Breaking down and removing brickwork etc (LI)</u>			
3	One brick wall	m2	60

Carried to Collection

Section No. 2
Bill No. 1
ALTERATIONS

R

	<u>Breaking up and removing reinforced concrete (LI)</u>		
4	Surface Bed	m3	7
	<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>		
5	Corrugated sheet steel roof covering, timber purlins (LI)	m2	50
6	Concrete tile roof covering including timber purlins (LI)	m2	211
7	Fiber cement and Plasterboard ceilings, including cornices, timber brandering, etc (LI)	m2	157
8	Fascia and barge boards (LI)	m	91
9	Removal of roof trusses	No	41
10	Removal of suspended timber floor	m2	113
	<u>Carefully take out and removing piping, sanitary fittings, etc, including cutting off as necessary, disconnecting piping from fittings and making good floor and wall finishes(making good tiling and paintwork elsewhere) (LI)</u>		
11	Gutters and downpipe	m	99
	<u>BUILDING UP OPENINGS</u>		
	<u>Brickwork in NFP bricks in class II mortar in building up openings</u>		
12	One brickwall	m2	8
	<u>Sundries</u>		
13	Cutting toothings and bonding new brickwork to existing	m2	1
	<u>MAKING GOOD OF FINISHES, ETC</u>		
	<u>Making good internal wall plaster</u>		
14	Walls where shelves were removed	m2	16
15	Walls where pipes and sanitary fittings were removed	m2	27
	Carried to Collection		
	Section No. 2		
	Bill No. 1		
	ALTERATIONS		

R

	<u>Making good existing expansion joint</u>		
16	Clean all surfaces to be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits	m	31
	<u>WATER AND SEWER</u>		
	<u>Inspect water and sewer</u>		
17	Inspect water reticulation and fix where necessary	No	1
18	Inspect sewer reticulation and fix where necessary	No	1

Carried to Collection

R

Section No. 2
Bill No. 1
ALTERATIONS

PRASA - SYDENHAM STATION

Section No. 2

Bill No. 1

ALTERATIONS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

37

38

39

40

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 1

ALTERATIONS

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO 2</u></p> <p><u>FOUNDATIONS (PROVISIONAL)</u></p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Carting away of excavated material</u></p> <p>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</p> <p><u>Filling</u></p> <p>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</p> <p><u>SITE CLEARANCE ETC</u></p> <p><u>Site clearance (LI)</u></p>			
1	<p>Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc</p> <p>A : 225 B : 0 C : 0 D : 0</p> <p>E : 0 F : 0 G : 0</p> <p><u>TRENCH EXCAVATIONS</u></p> <p><u>Excavation in compacted material not exceeding 2m deep</u></p>	m2	225	
2	<p>Trenches</p> <p>A : 98 B : 0 C : 0 D : 0</p> <p>E : 8 F : 0 G : 0</p>	m3	106	
	Carried to Collection			R
	Section No. 2			
	Bill No. 2			
	EARTHWORKS			

TRENCH EXCAVATIONS IN COMPACTED MATERIAL

Excavations in compacted material not exceeding 2m deep

3	For apron	m3	14
	A : 12 B : 0 C : 1 D : 0		
	E : 0 F : 0 G : 0		

Extra over excavation for excavating in:

4	Soft rock	m3	5
	A : 5 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

5	Hard rock	m3	1
	A : 1 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

SUNDRIES

Extra over all excavations for carting away

6	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	113
	A : 110 B : 0 C : 0 D : 0		
	E : 3 F : 0 G : 0		

Risk of collapse of excavations

7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	289
	A : 265 B : 0 C : 0 D : 0		
	E : 24 F : 0 G : 0		

Keeping excavations free of water

8	Keeping excavations free of water	Item	
	A : 1.00 B : 0.00 C : 0.00 D : 0.00		
	E : 0.00 F : 0.00 G : 0.00		

Carried to Collection

R

Section No. 2
Bill No. 2
EARTHWORKS

FILLING ETC

Earthfilling with G5 material supplied by the Contractor,
compacted to 95% Mod AASHTO density

9	Backfilling to trenches, holes, etc	m3	75
	A : 64 B : 0 C : 9 D : 0		
	E : 2 F : 0 G : 0		
10	Under floors, steps, pavings, etc	m3	126
	A : 90 B : 0 C : 36 D : 0		
	E : 0 F : 0 G : 0		

Compaction of surfaces

11	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 97% Mod AASHTO density	m2	113
	A : 113 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

SOIL POISONING (LI)

Soil insecticide in accordance with SANS 5859

12	To bottoms and sides of trenches etc	m2	280
	A : 265 B : 0 C : 0 D : 0		
	E : 15 F : 0 G : 0		
13	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	136
	A : 113 B : 0 C : 0 D : 0		
	E : 24 F : 0 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 2
EARTHWORKS

PRASA - SYDENHAM STATION

Section No. 2

Bill No. 2

EARTHWORKS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

42

43

44

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 2
EARTHWORKS

Item
No

Quantity

Rate

Amount

SECTION 2

BILL NO 3

**CONCRETE, FORMWORK AND
REINFORCEMENT**

PREAMBLES

For preambles refer to "Model Preambles for Trades"

SUPPLEMENTARY PREAMBLES

Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect

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)

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.

Carried to Collection

R

Section No. 2

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

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 reasons. 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"

REINFORCED CONCRETE 30 mpa concrete in Raft Foundation

30Mpa/20mm concrete

1	Strip footing	m3	4
	A : 2 B : 0 C : 0 D : 0		
	E : 3 F : 0 G : 0		
2	Surface beds	m3	115
	A : 113 B : 0 C : 0 D : 0		
	E : 2 F : 0 G : 0		
3	Aprons	m3	6
	A : 5 B : 0 C : 1 D : 0		
	E : 0 F : 1 G : 0		
	<u>TEST CUBES</u>		
4	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	Sets	16
	A : 9 B : 0 C : 2 D : 0		
	E : 2 F : 3 G : 0		

FINISHING TOP SURFACES OF CONCRETE

Carried to Collection

Section No. 2
Bill No. 3
CONCRETE, FORMWORK AND REINFORCEMENT

R

	<u>Finishing top surfaces of concrete smooth with power float and curing</u>			
5	Surface beds, slabs, etc A : 113 B : 0 C : 0 D : 0 E : 24 F : 0 G : 0	m2	136	
6	Surface beds, slabs, etc to falls A : 24 B : 0 C : 7 D : 0 E : 0 F : 9 G : 0	m2	40	
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
	<u>Rough formwork to sides</u>			
7	Edges, risers, ends and reveals not exceeding 300mm high or wide A : 10 B : 0 C : 4 D : 0 E : 0 F : 3 G : 0	m2	17	
	<u>Rough formwork to soffits</u>			
8	Slabs propped up exceeding 1.5m and not exceeding 3.5m high A : 6 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	m2	6	
	<u>MOVEMENT JOINTS ETC</u>			
	<u>Expansion joints with 10mm soft board between vertical concrete and/or brick surfaces</u>			
9	10mm Joints not exceeding 300mm high A : 33 B : 0 C : 6 D : 0 E : 7 F : 7 G : 0	m	54	
	<u>REINFORCEMENT (CPAP Work Group No 114)</u>			
	<u>Mild steel reinforcement to structural concrete work</u>			
10	Various bar diameters A : 1.86 B : 0.00 C : 0.00 D : 0.00 E : 0.30 F : 0.00 G : 0.00	t	2.16	

Carried to Collection

R

Section No. 2
Bill No. 3
CONCRETE, FORMWORK AND REINFORCEMENT

Fabric reinforcement

11	Type 395 fabric reinforcement in concrete surface beds, slabs, etc. with 300mm wide side and end laps (measured net)	m2	44
	A : 24 B : 0 C : 11 D : 0		
	E : 0 F : 9 G : 0		
12	Type 245 fabric reinforcement in concrete surface beds, slabs, etc. with 300mm wide side and end laps (measured net)	m2	136
	A : 113 B : 0 C : 0 D : 0		
	E : 24 F : 0 G : 0		

Carried to Collection

Section No. 2
Bill No. 3
CONCRETE, FORMWORK AND REINFORCEMENT

R

Section No. 2

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

46

47

48

49

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO 4</u></p> <p><u>MASONRY</u></p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect</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><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>Reinforced brick lintels</u></p> <p>Lintels shall bear at least 160mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
	Carried to Collection		R	
	Section No. 2 Bill No. 4 MASONRY			

FOUNDATIONS

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar

1	One brick walls	m2	19
	A : 7 B : 0 C : 0 D : 0		
	E : 11 F : 0 G : 0		

SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

2	Half brick walls	m2	64
	A : 33 B : 0 C : 0 D : 0		
	E : 26 F : 6 G : 0		

3	One brick walls	m2	50
	A : 0 B : 0 C : 0 D : 0		
	E : 24 F : 26 G : 0		

Brickwork reinforcement

4	75mm Wide reinforcement built in horizontally	m	819
	A : 386 B : 0 C : 0 D : 0		
	E : 226 F : 208 G : 0		

5	150mm Wide reinforcement built in horizontally	m	672
	A : 0 B : 0 C : 0 D : 0		
	E : 180 F : 493 G : 0		

Prestressed fabricated lintels

6	110 x 75mm Lintels in lengths not exceeding 3m	m	57
	A : 33 B : 0 C : 0 D : 0		
	E : 14 F : 10 G : 0		

Joint forming material in movement joints

7	10mm Fibre board built in vertically between brick skins	m2	3
	A : 2 B : 0 C : 0 D : 0		
	E : 2 F : 0 G : 0		

Carried to Collection

Section No. 2
Bill No. 4
MASONRY

R

	<u>Brick-on-edge header course bands, copings, sills, etc of approved face bricks, pointed with flush recessed joints on all exposed faces</u>				
8	170mm Wide sills set sloping and slightly projecting	m2	4		
	A : 2 B : 0 C : 0 D : 0				
	E : 2 F : 1 G : 0				
	<u>Galvanised wire ties etc</u>				
9	4mm Diameter roof tie 2m girth bent double, with one end built into brickwork and other end fixed to timber	No	216		
	A : 144 B : 0 C : 28 D : 0				
	E : 28 F : 16 G : 0				

Carried to Collection

R

Section No. 2
Bill No. 4
MASONRY

Section No. 2

Bill No. 4

MASONRY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

51

52

53

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 4

MASONRY

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 5</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
	<u>DAMPPROOFING OF WALLS AND FLOORS (LI)</u>			
	<u>One layer of 375 micron embossed damp proof course</u>			
1	In walls A : 3 B : 0 C : 0 D : 0 E : 4 F : 5 G : 0	m2	12	
	<u>One layer of 250 micron green polythene waterproof sheeting (SANS 952 - 1985 type C) sealed at laps with PVC self adhesive tape</u>			
2	Under surface beds, aprons and ramps A : 137 B : 0 C : 33 D : 0 E : 24 F : 32 G : 0	m2	225	
	Carried Forward to Summary of Section No. 2			
	Section No. 2 Bill No. 5 WATERPROOFING			
			R	

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 6</u>			
	<u>ROOF COVERINGS ETC</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
	<u>Straight cutting</u>			
	Descriptions of all roof coverings are deemed to include for all straight cutting			
	<u>PROFILED FIBRE-CEMENT SHEETING AND ACCESSORIES</u>			
	<u>Fibre cement sheeting and accessories, fixed to timber purlins</u>			
1	Roof covering with pitches not exceeding 25 degrees and with side and end laps sealed with 12 x 25mm closed cell bitumen impregnated polyurethane foam strips A : 175 B : 0 C : 36 D : 0 E : 48 F : 26 G : 0	m2	284	
2	Plain fixed angle ridge cappings A : 26 B : 0 C : 6 D : 0 E : 0 F : 5 G : 0	m	37	
3	Plain fixed angle hip cappings A : 24 B : 0 C : 10 D : 0 E : 0 F : 10 G : 0	m	44	
	Carried to Collection			
	Section No. 2			
	Bill No. 6			
	ROOF COVERINGS			
			R	

4	Hip end cap A : 8 B : 0 C : 4 D : 0 E : 0 F : 4 G : 0	No	16
5	Ridge end cap A : 8 B : 0 C : 2 D : 0 E : 0 F : 2 G : 0	No	12
6	Junction piece at intersection of ridge with two hip cappings A : 6 B : 0 C : 2 D : 0 E : 0 F : 2 G : 0	No	10
7	Valley coverings 350mm girth A : 17 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	m	17
8	Rolled edges at verge A : 0 B : 0 C : 23 D : 0 E : 21 F : 20 G : 0	m	63
9	Fascias and barge boards A : 68 B : 37 C : 23 D : 0 E : 21 F : 20 G : 0	m	169
<u>ROOF AND WALL INSULATION</u>			
<u>Heavy industrial grade reinforce aluminium foil faced bothsides sheeting</u>			
10	Insulation sheeting laid taut over purlins and fixed concurrent with roof covering with minimum 150mm stapled laps including galvanised steel straining wires at not exceeding 400mm centres and double-sided tape at edges where required A : 175 B : 0 C : 36 D : 0 E : 48 F : 26 G : 0	m2	284

Carried to Collection

R

Section No. 2
Bill No. 6
ROOF COVERINGS

Section No. 2

Bill No. 6

ROOF COVERINGS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

56

57

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 6

ROOF COVERINGS

Item No		Quantity	Rate	Amount
	<p><u>SECTION 2</u></p> <p><u>BILL NO 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect</p> <p><u>Plate nailed timber roof truss construction</u></p> <p>The following is applicable in respect of roof trusses:</p>			
	Carried to Collection		R	
	<p>Section No. 2</p> <p>Bill No. 7</p> <p>CARPENTRY AND JOINERY</p>			

1. Trusses are at maximum 1250mm centres and with a pitch of 20 degrees
2. Roof covering is 0,6mm Galvanised Corrugated roof sheeting or other equal approved on 50 x 76mm SAP purlins
3. All trusses are to be fabricated in a factory by Specialists approved by the Architect
4. The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences
7. All trusses shall be designed by a Registered Professional Engineer (in accordance with the SABS Code of Practice for the Design of Timber Structures).
8. The Manufacturer of the trusses shall supply a written guarantee that the trusses are designed, manufactured and erected to support the roof covering specified. The guarantee shall be valid for a period of 10 (ten) years.

Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

ROOFS, ETC

TROUGHED METAL SHEETING AND ACCESORIES

Sundry roof timbers

1	38 x 114mm Wall plate	m	120
	A : 68 B : 0 C : 16 D : 0		
	E : 21 F : 15 G : 0		
2	50 x 76mm purlins including additional timber supports at spliced joints	m	590
	A : 353 B : 0 C : 80 D : 0		
	E : 57 F : 100 G : 0		

Carried to Collection

Section No. 2
Bill No. 7
CAPENTRY AND JOINERY

R

<u>Sawn softwood grade 5</u>				
3	5640 x 1500mm high plate nailed double pitch hip roof truss members in lengths not exceeding 2,4m made of 38 x 152mm tie beam and 38 x 114mm truss members	No	24	
	A : 0 B : 0 C : 12 D : 0			
	E : 0 F : 12 G : 0			
4	6790 x 1800mm high plate nailed double pitch hip roof truss members in lengths not exceeding 2,4m made of 38 x 152mm tie beam and 38 x 114mm truss members	No	44	
	A : 44 B : 0 C : 0 D : 0			
	E : 0 F : 0 G : 0			
5	3420 x 500mm high plate nailed mono pitch roof truss members in lengths not exceeding 2,4m made of 38 x 152mm tie beam and 38 x 114mm truss members	No	10	
	A : 0 B : 0 C : 0 D : 0			
	E : 10 F : 0 G : 0			
<u>SKIRTINGS</u>				
<u>Wrought Meranti</u>				
6	19 x 76mm Skirting with and including 19mm quarter round nailed to walls	m	111	
	A : 82 B : 0 C : 0 D : 0			
	E : 29 F : 0 G : 0			
<u>DOORS, ETC</u>				
<u>Solid flush panel doors with hardwood veneer both sides, and two hardwood egde strips, hung to steel frames</u>				
7	44mm Door 813 x 2032mm high	No	23	
	A : 12 B : 0 C : 5 D : 0			
	E : 2 F : 4 G : 0			

FITTINGS

Carried to Collection

R

Section No. 2
Bill No. 7
CAPENTRY AND JOINERY

VANITY TOPS

Granite vanity top units comprising 600 x 30mm thick top, 300 x 20mm thick fascia and 100 x 20mm thick splash back skirting, complete with all necessary accessories, the whole plugged into brickwork as per architect's drawing

- 8 2900mm Long overall with cuttings for 2No. wash hand basins (elsewhere measured) including fixing in position to brackets with and including brass screws

No

2

A : 0 B : 0 C : 1 D : 0
E : 0 F : 1 G : 0

- 9 Timber sink cupboard 2500 x 600 x 900mm high, including sink and disconnecting waste pipe (new trap and connecting to new waste pipe elsewhere) (LI)

No

2

A : 1 B : 0 C : 0 D : 0
E : 1 F : 0 G : 0

Budgetary Allowance

- 10 Allow the budgetary allowance of R 50 000.00 (Fifty Thousand Rand) for joinery fittings to be used as directed by Project Manager and to be deducted in whole or in part if required

Item

Seating Benches

- 11 1800 x 625mm wide Bench made of 50 x 50 x 3mm mild steel section welded together to form a seating bench with lean back support. Frame fixed to wall and floor with 38 x 70mm anchors. 45 x 75mm hardwood timber batterns screwed to steel frame.

No

8

A : 0 B : 8 C : 0 D : 0
E : 0 F : 0 G : 0

Carried to Collection

R

Section No. 2
Bill No. 7
CAPENTRY AND JOINERY

Section No. 2

Bill No. 7

CAPENTRY AND JOINERY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

59

60

61

62

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 7

CAPENTRY AND JOINERY

Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p> <p><u>BILL NO 8</u></p> <p><u>CEILINGS, PARTITIONSAND ACCESS FLOORING</u></p> <p><u>PREAMBLES</u></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect</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>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels, etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (Ceiling panels have not been deducted and pricing is to take cognisance thereof)</p>			
<p>Carried to Collection</p>			<p>R</p>
<p>Section No. 2 Bill No. 8 CEILINGS, ETC</p>			

CEILINGS, ETC

Insulation

1	125mm Insulation closely fitted and laid on top of brandering between roof timbers, etc	m2	206
	A : 113 B : 36 C : 21 D : 0		
	E : 24 F : 14 G : 0		

NAILED UP CEILINGS

6mm Fibre-cement plain ceiling boards

2	Ceilings including 50 x 38mm sawn softwood brandering at 1200mm centres and cross brandering at 700mm centres	m2	206
	A : 113 B : 36 C : 21 D : 0		
	E : 24 F : 14 G : 0		
3	75mm Coved cornices	m	231
	A : 127 B : 37 C : 16 D : 0		
	E : 29 F : 21 G : 0		
4	Extra over ceiling for 750 x 750 x 4mm thick pressed steel trap door, hinged to open 180 degrees onto ceiling	No	5
	A : 2 B : 0 C : 1 D : 0		
	E : 1 F : 1 G : 0		

Carried to Collection

Section No. 2
Bill No. 8
CEILINGS, ETC

R

PRASA - SYDENHAM STATION

Section No. 2

Bill No. 8

CEILINGS, ETC

COLLECTION

Total Brought Forward from Page No.

**Page
No**

64

65

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 8
CEILINGS, ETC

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 9</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Approved product</u>			
1	102 x 75 x 3mm brass butt hinge A : 24 B : 0 C : 15 D : 0 E : 6 F : 15 G : 0	No	60	
	<u>1.2mm Thick satin finished stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
2	Satin chrome WC indicator bolt A : 3 B : 0 C : 4 D : 0 E : 1 F : 4 G : 0	No	12	
	<u>LOCKS</u>			
	<u>EN SUITE LOCKS</u>			
3	Four-lever lockset A : 8 B : 0 C : 5 D : 0 E : 2 F : 4 G : 0	No	19	
4	Seven lever safe lockset A : 2 B : 0 C : 1 D : 0 E : 1 F : 1 G : 0	No	5	
	<u>HANDLES</u>			
	<u>Approved product</u>			
5	Satin chrome handles A : 8 B : 0 C : 5 D : 0 E : 2 F : 4 G : 0	No	19	
	Carried to Collection			
	Section No. 2 Bill No. 9 IRONMONGERY			
			R	

CATCHES, CABIN HOOKS, ETC

6	200mm cabin hook and eye including 70 x 70 x 20mm chamfered hardwood block twice oiled and plugged	No	2
	A : 2 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
7	Stainless steel hat and coat hook with rubber buffer	No	4
	A : 4 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

BATHROOM FITTINGS

Approved product

8	Grade 304 1.5mm thick 18 satin stainless steel toilet roll holders with spindle system, size 304 x 156 x 140.7mm deep for 2 rolls maximum 108mm diameter, cylinder lock with standard key, plugged and screwed to the wall with stainless	No	11
	A : 3 B : 0 C : 4 D : 0		
	E : 1 F : 3 G : 0		
9	350 x 365 x 134 Diameter tear and dry paper towel dispenser in stainless steel complete with screws, locking key and all necessary accessories and installed in accordance to manufacturers specifications.	No	11
	A : 3 B : 0 C : 4 D : 0		
	E : 1 F : 3 G : 0		
10	500ml Stainless steel manual soap dispenser	No	9
	A : 3 B : 0 C : 2 D : 0		
	E : 1 F : 3 G : 0		
11	Watertech chrome plated water brush set, size 155 x 120 x 375mm high.	No	11
	A : 3 B : 0 C : 4 D : 0		
	E : 1 F : 3 G : 0		
12	Wall mounted medium size aquarius white plastic waste bin	No	9
	A : 4 B : 0 C : 1 D : 0		
	E : 2 F : 2 G : 0		
13	Wall mounted 190 x 320 x 600mm plastic sanitary bin with capacity of 100 liners per pack	No	7
	A : 3 B : 0 C : 0 D : 0		
	E : 1 F : 3 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 9
IRONMONGERY

14	Stainless steel back grab rail 750mm long, plugged A : 2 B : 0 C : 1 D : 0 E : 0 F : 1 G : 0	No	4
15	Stainless steel side grab rail 900mm long, plugged A : 2 B : 0 C : 1 D : 0 E : 0 F : 1 G : 0	No	4
<u>STEEL LOCKERS</u>			
<u>Steel lockers with standard baked enamel finish</u>			
16	Steelwork single tier locker 305 x 450 x 1800mm high, lockers to be joined together with nesting rivets A : 2 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	No	2
<u>PELMETS AND CURTAIN TRACKS</u>			
<u>Vertical blinds</u>			
<u>Approved vertical blinds with 127mm wide vanes, 46mm wide X 25mm high top rack powder coated in white colour fixed to brickwork reveals with clips</u>			
17	Pressed steel pelmets 1 645mm high with recess mounted, including single vertical blinds track with 8 blinds per metre, stops, brackets, returned ends, etc A : 1 B : 0 C : 0 D : 0 E : 5 F : 0 G : 0	m	6
<u>SUNDRIES</u>			
18	38mm Diameter rubber door stop plugged A : 8 B : 0 C : 5 D : 0 E : 2 F : 4 G : 0	No	19

Carried to Collection

R

Section No. 2
Bill No. 9
IRONMONGERY

Section No. 2

Bill No. 9

IRONMONGERY

COLLECTION

Total Brought Forward from Page No.

**Page
No**

67

68

69

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 9

IRONMONGERY

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 10</u>			
	<u>METALWORK</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
	<u>DOOR FRAMES, DOORS, WINDOWS, ETC</u>			
	<u>MILD STEEL WINDOWS, DOORS, ETC</u>			
	<u>Windows with and including 20 x 5mm galvanised steel flat bar burglar proofing with grating, welded to frames at centre-line of panes</u>			
1	Window type W8, 1616 x 1445mm high A : 0 B : 0 C : 1 D : 0 E : 3 F : 0 G : 0	No	4	
2	Window 533 x 949mm high A : 2 B : 0 C : 4 D : 0 E : 1 F : 4 G : 0	No	11	
3	Ticketing window complete with deep tray and ballistic resistance glass installed as per manufacturer's specifications A : 2 B : 0 C : 0 D : 0 E : 1 F : 0 G : 0	No	3	
	Carried to Collection			
	Section No. 2 Bill No. 10 METALWORK			
			R	

PRESSED STEEL DOOR FRAMES

1,6mm Rebated frames suitable for half brick walls

4	Frame for door 813 x 2125mm high	No	19
	A : 8 B : 0 C : 5 D : 0		
	E : 2 F : 4 G : 0		

STEEL DOORS

5	877 x 2438 2mm Typy HVV Galvanised transformer steel door	No	5
	A : 2 B : 0 C : 1 D : 0		
	E : 1 F : 1 G : 0		

STRONGROOM DOORS

6	Strongroom door and frame 1930 x 850mm high overall with a mass of 230kg, complete with ironmongery	No	1
	A : 1 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

GALVANISED TURNSTILES GATE

7	Full height turnstile	No	2
	A : 2 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 10
METALWORK

Section No. 2

Bill No. 10

METALWORK

COLLECTION

Total Brought Forward from Page No.

**Page
No**

71

72

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 10
METALWORK

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 11</u>			
	<u>PLASTERING (LI)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
1	75mm Thick on floors finished with a steel/wood A : 113 B : 0 C : 21 D : 0 E : 24 F : 14 G : 0	m2	171	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster wood floated, on brickwork</u>			
2	On walls A : 34 B : 52 C : 7 D : 0 E : 10 F : 52 G : 0	m2	155	
3	On narrow widths A : 8 B : 0 C : 1 D : 0 E : 2 F : 1 G : 0	m2	13	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster wood floated, on brickwork</u>			
4	On walls A : 71 B : 52 C : 14 D : 0 E : 81 F : 74 G : 0	m2	293	
	Carried to Collection			
	Section No. 2 Bill No. 11 PLASTERING			
			R	

5 On narrow widths

A : 4 B : 0 C : 1 D : 0
E : 3 F : 2 G : 0

m2

11

Carried to Collection

Section No. 2
Bill No. 11
PLASTERING

R

Section No. 2

Bill No. 11

PLASTERING

COLLECTION

Total Brought Forward from Page No.

**Page
No**

74

75

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 11

PLASTERING

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 12</u>			
	<u>TILING (LI)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
	<u>Descriptions</u>			
	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>300 x 150mm Ceramic wall tiles fixed with adhesive to plaster and flush pointed with tinted waterproofing jointing compound</u>			
1	On walls A : 58 B : 0 C : 76 D : 0 E : 12 F : 60 G : 0	m2	206	
2	On walls in isolated panels, splashbacks, etc A : 1 B : 0 C : 0 D : 0 E : 1 F : 0 G : 0	m2	2	
	Carried to Collection			
	Section No. 2			
	Bill No. 12			
	TILING			
			R	

FLOOR TILING

500 x 500 x 12mm Heavy duty Porcelain tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted grout

3	<u>On floors</u>	m2	171
	A : 113 B : 0 C : 21 D : 0		
	E : 24 F : 14 G : 0		
4	100mm Tile skirting	m	195
	A : 112 B : 0 C : 33 D : 0		
	E : 29 F : 21 G : 0		
	<u>SUNDRIES</u>		
5	Aluminium steel straight edge trim	m	195
	A : 112 B : 0 C : 33 D : 0		
	E : 29 F : 21 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 12
TILING

Section No. 2

Bill No. 12

TILING

COLLECTION

Total Brought Forward from Page No.

**Page
No**

77

78

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 12

TILING

Item
No

Quantity

Rate

Amount

SECTION 2

BILL NO 13

**PLUMBING AND DRAINAGE
(PROVISIONAL)**

PREAMBLES

For preambles refer to "Model Preambles for Trades"

SUPPLEMENTARY PREAMBLES

Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Stormwater channels

Descriptions of channels shall be deemed to include all necessary excavation and disposal of surplus material

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 for water supply shall be of the class described Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

Copper pipes

Pipes shall be carbon free and of hard drawn Class O as manufactured by "Maksal". Pipes shall not be bent. Fittings to copper pipes shall be "Cobra Watertech" type capillary solder fittings. Capillary solder fittings shall comply with ISO 2016

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 copperflux composition

The contractor is to allow for regular inspections and monthly certification by the manufacturer to ensure compliance with the above

Galvanised steel pipes and fittings

Galvanised steel pipes are to be "Tosa" medium class to SABS 62 and fittings are to be manufactured by "Tupy"

Reducing fittings

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

Gratings, covers, etc

Gratings, covers, etc shall be as manufactured by "Besaans-du Plessis Foundries", unless otherwise described

Exposed concrete surfaces

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

Carried to Collection

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

R

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"

Keeping excavations free of water

Further to clause 5 page 53 of the Standard System of Measuring Building Work, excavations for sumps, catchpits, inspection chambers, junction boxes and the like shall be deemed to include for keeping free of water

Laying, backfilling, bedding, etc of pipes

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

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

SABS 1200 L : Medium-pressure pipelines

SABS 1200L LD : Sewers

SABS 1200 LE : Stormwater drainage

Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200DB :

Earthworks (Pipe trenches)

Compaction of backfilling in trenches in areas not subject to traffic loads as described in SABS 1200 DB clause 5.7.1 shall be 93% and not 90% of Modified AASHTO maximum density

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

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

Selected granular bedding material is to be supplied by the contractor

Selected filling to pipe trenches is to be obtained from the excavation material and is to be screened where necessary

Carried to Collection

Section No. 2

Bill No. 13

PLUMBING AND DRAINAGE

R

Disinfection of water pipework

All pipework is to be disinfected in accordance with SABS 1 200L

Sanitary fittings

Outer edges of sinks, basins, urinals, etc are to be sealed against adjacent surfaces with "Bayer 400F" silicone

Stainless steel basins, sinks, wash troughs, urinals, etc

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

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

General

Descriptions of pipes laid in and including trenches, inspection chambers, french drains, septic tanks, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Modified AASHTO density and disposal of surplus material

Descriptions of copper service pipes and flexible connecting pipes shall include connections to taps, cisterns, etc and to steel pipes

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

RAINWATER DISPOSAL

0,8mm Chromadek sheet iron

1	125 x 125mm Chromadek eaves gutters	m	119
	A : 68 B : 0 C : 23 D : 0		
	E : 8 F : 20 G : 0		
2	Extra over for angles	No	22
	A : 14 B : 0 C : 4 D : 0		
	E : 0 F : 4 G : 0		

Carried to Collection

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

R

3	Extra over for stopped end A : 4 B : 0 C : 0 D : 0 E : 2 F : 0 G : 0	No	6
4	Extra over for outlet for 100 x 75mm pipe A : 12 B : 0 C : 4 D : 0 E : 1 F : 4 G : 0	No	21
5	100 x 75mm Rainwater pipes A : 38 B : 0 C : 13 D : 0 E : 3 F : 13 G : 0	m	67
6	Extra over for shoe A : 12 B : 0 C : 8 D : 0 E : 1 F : 4 G : 0	No	25
<u>SANITARY FITTINGS</u>			
<u>Approved product</u>			
7	455 x 290mm Vitreous china wash hand basin fitted on the vanity A : 4 B : 0 C : 3 D : 0 E : 0 F : 3 G : 0	No	10
8	Sanitaryware Hibiscus Vitreous china close coupled washdown suite, comprising 90 degrees outlet open rim pan and matching 6 litre top dual flush cistern (seat elsewhere) A : 4 B : 0 C : 4 D : 0 E : 0 F : 3 G : 0	No	11
9	Stainless steel single drop on sink, overall size 900 x 535mm with one 460 x 410 x 120mm deep bowl, fitted onto cupboards (cupboard elsewhere measured) including plumbing kit including sealing between back of sink and wall with white antifungal silicone sealer A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	No	1
10	Wall mounted urinal with top inlet, size 600 x 385 x 380mm, , fitted to wall with two hanger brackets, complete with 38mm CP domical grating and CP spreader (flushing valve elsewhere) A : 0 B : 0 C : 3 D : 0 E : 0 F : 0 G : 0	No	3

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

11	Protea Paraplegic white vitreous china floor mounted paraplegic washdown suite (product code 750200) comprising 90° outlet pan (product code 7502) and matching 9 litre cistern (product code 710631), including DPE heavy duty thermoplastic A1 deluxe double flap seat, lid, fitments and purpose-made chromium plated side flush lever.	No	2
	A : 0 B : 0 C : 1 D : 0 E : 0 F : 1 G : 0		
	<u>Stainless steel</u>		
	<u>WASTE UNIONS ETC</u>		
12	32mm Basin waste union	No	10
	A : 4 B : 0 C : 3 D : 0 E : 0 F : 3 G : 0		
13	38mm Sink and waste union	No	1
	A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0		
14	40mm waste union with domical grating	No	3
	A : 0 B : 0 C : 3 D : 0 E : 0 F : 0 G : 0		
	<u>TRAPS ETC</u>		
	<u>uPVC</u>		
	<u>Approved product</u>		
15	40mm Chromium plated bottle trap	No	8
	A : 4 B : 0 C : 3 D : 0 E : 0 F : 1 G : 0		
16	40mm P trap	No	6
	A : 2 B : 0 C : 3 D : 0 E : 0 F : 1 G : 0		
17	110mm One-way vent valve	No	11
	A : 4 B : 0 C : 4 D : 0 E : 0 F : 3 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

TAPS, VALVES, ETC

Approved product

Brass

18	20mm Stopcock	No	5
	A : 3 B : 0 C : 1 D : 0		
	E : 0 F : 1 G : 0		
	<u>"Cobra Watertech" or similar approved</u>		
19	15mm 232/350CP angle regulating valve and connection pipe	No	22
	A : 8 B : 0 C : 8 D : 0		
	E : 0 F : 6 G : 0		
20	15mm flexi pipe	No	19
	A : 8 B : 0 C : 8 D : 0		
	E : 0 F : 3 G : 0		
21	Basin mixer	No	7
	A : 4 B : 0 C : 2 D : 0		
	E : 0 F : 1 G : 0		
22	CP Lever action pillar taps	No	2
	A : 0 B : 0 C : 1 D : 0		
	E : 0 F : 1 G : 0		
23	15mm single lever sink mixer	No	4
	A : 4 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
24	22mm Flushmaster Junior urinal flushvalve complete with connector, spray rose and wallplate	No	3
	A : 0 B : 0 C : 3 D : 0		
	E : 0 F : 0 G : 0		
25	22mm Brass chrome plated hosebib tap	No	2
	A : 2 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

SANITARY PLUMBING

Heavy duty (Class 34) uPVC sewer and drain pipes

26	110mm Pipes in and including trenches exceeding 1m and not exceeding 2m deep including bedding, backfilling and compaction				
			m	65	

A : 65	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	

Extra over uPVC pipes for fittings

27	40mm Access bend				
			No	4	

A : 4	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	

28	110mm Pan adaptor				
			No	10	

A : 3	B : 0	C : 4	D : 0
E : 0	F : 3	G : 0	

29	110mm Long radius bend				
			No	3	

A : 3	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	

30	110mm Straight pan connector				
			No	10	

A : 3	B : 0	C : 4	D : 0
E : 0	F : 3	G : 0	

31	110mm vent valve				
			No	10	

A : 3	B : 0	C : 4	D : 0
E : 0	F : 3	G : 0	

32	110mm Access bend				
			No	4	

A : 4	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	

33	110mm Access junction				
			No	3	

A : 3	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	

34	110mm Reducer				
			No	4	

A : 4	B : 0	C : 0	D : 0
E : 0	F : 0	G : 0	

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

35	110mm End cap A : 3 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	No	3	
36	110mm Gulley "P" trap A : 3 B : 0 C : 1 D : 0 E : 0 F : 2 G : 0	No	6	
37	190 x 110mm Gulley head and grating A : 3 B : 0 C : 1 D : 0 E : 0 F : 2 G : 0	No	6	
38	190 x 110mm Floor drain head and grating A : 3 B : 0 C : 1 D : 0 E : 0 F : 2 G : 0	No	6	
<u>Precast concrete gulleys</u>				
39	Precast concrete gulley with 100mm outlet A : 3 B : 0 C : 1 D : 0 E : 0 F : 2 G : 0	No	6	
<u>Sundries</u>				
40	Testing waste pipe system A : 1.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 F : 0.00 G : 0.00		Item	
41	Excavate, cut in and connect new 110mm diameter sewer line to existing incl pipe, fittings etc A : 1.00 B : 0.00 C : 0.00 D : 0.00 E : 0.00 F : 0.00 G : 0.00		Item	
<u>WATER SUPPLIES</u>				
<u>HDPE pipes</u>				
42	20mm Pipes laid in trenches exceeding 1m and not exceeding 2m A : 40 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	m	40	
<u>Extra over HDPe pipes for fittings</u>				
43	20mm End cap A : 1 B : 0 C : 0 D : 0 E : 0 F : 0 G : 0	No	1	
Carried to Collection				
Section No. 2				
Bill No. 13				
PLUMBING AND DRAINAGE				

R

44	20mm Bend	No	3
	A : 3 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
45	20mm Junction	No	3
	A : 3 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
	<u>Class 12 copper pipes including sockets, couplings and holder bats</u>		
46	15mm Pipes	m	34
	A : 34 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
47	22mm Pipes	m	5
	A : 5 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
	<u>Extra over class 12 copper pipes for fittings</u>		
48	15mm Fittings	m	28
	A : 28 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
49	22mm Fittings	m	13
	A : 13 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		
	<u>Extra over class "O" copper pipes brass compression fittings</u>		
50	15mm Pipes	No	30
	A : 22 B : 0 C : 0 D : 0		
	E : 0 F : 8 G : 0		
	<u>Sundries</u>		
51	Cobra watertech 22mm meter master exposed metering flow control valve with integral ball-o-stop inlet, non-hold open, outlet flow controller and pull chain, manufactured in accordance with SANS 1808-9:2001	No	1
	A : 1 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

PRASA - SYDENHAM STATION

52 Cobra watertech 22mm "Masterflo II" pressure control valve with integral expansion relief valve, replaceable cartridge, stainless steel strainer, 22mm C X C (Compression) vacuum breaker, system pressure 300 kPa

A : 1 B : 0 C : 0 D : 0
E : 0 F : 0 G : 0

No

1

53 Excavate, cut in and connect new 28mm diameter water line to existing incl pipe, fittings etc.

TESTING

Item

54 Testing water and fire water system

Item

Carried to Collection

R

Section No. 2
Bill No. 13
PLUMBING AND DRAINAGE

Section No. 2

Bill No. 13

PLUMBING AND DRAINAGE

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

80

81

82

83

84

85

86

87

88

89

90

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 13

PLUMBING AND DRAINAGE

Item No		Quantity	Rate	Amount
<u>SECTION 2</u>				
<u>BILL NO 14</u>				
<u>GLAZING (LI)</u>				
<u>PREAMBLES</u>				
For preambles refer to "Model Preambles for Trades"				
<u>SUPPLEMENTARY PREAMBLES</u>				
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect				
<u>GLAZING TO ALUMINIUM WITH SCREWED ON BEADS (BEADS ELSEWHERE)</u>				
<u>6mm Clear toughened safety glass</u>				
1	Panes exceeding 0,5m2 and not exceeding 2m2 A : 7 B : 0 C : 0 D : 0 E : 7 F : 0 G : 0	m2	14	
<u>4mm obscure safety glass</u>				
2	Panes exceeding 0.1m2 and not exceeding 0.5m2 A : 1 B : 0 C : 2 D : 0 E : 0 F : 1 G : 0	m2	5	
<u>MIRRORS</u>				
<u>6mm Silvered float glass copper backed mirrors with bevelled and polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
3	Mirror 600 x 450mm high with 4 screws A : 3 B : 0 C : 3 D : 0 E : 1 F : 3 G : 0	No	10	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Bill No. 14 GLAZING				

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 15</u>			
	<u>PAINTWORK (LI)</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the architect			
	<u>DESCRIPTIONS</u>			
	Descriptions of paintwork shall be deemed to include for all cutting in			
	<u>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat alkali resistant primer and two coats PVAemulsion paint for interior use</u>			
1	Walls			
	A : 313 B : 0 C : 109 D : 0	m2	475	
	E : 53 F : 0 G : 0			
2	On narrow widths	m2	6	
	A : 3 B : 0 C : 1 D : 0			
	E : 2 F : 0 G : 0			
	Carried to Collection			
	Section No. 2			
	Bill No. 15			
	PAINTWORK			
			R	

ON EXTERNAL FLOATED PLASTER SURFACES

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

3	Walls	m2	594
	A : 337 B : 119 C : 80 D : 0		
	E : 58 F : 0 G : 0		

4	On narrow widths	m2	5
	A : 1 B : 0 C : 1 D : 0		
	E : 2 F : 0 G : 0		

PAINTWORK, ETC TO NEW WORK ON

ON INTERNAL FLOATED PLASTER SURFACES

One coat alkali resistant primer and two coats PVA emulsion paint for interior use

5	Walls	m2	190
	A : 64 B : 0 C : 0 D : 0		
	E : 52 F : 74 G : 0		

6	On narrow widths	m2	7
	A : 4 B : 0 C : 0 D : 0		
	E : 1 F : 2 G : 0		

7	Soffits of slabs	m2	6
	A : 6 B : 0 C : 0 D : 0		
	E : 0 F : 0 G : 0		

ON EXTERNAL FLOATED PLASTER SURFACES

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

8	Walls	m2	164
	A : 7 B : 104 C : 0 D : 0		
	E : 0 F : 52 G : 0		

Carried to Collection

Section No. 2
Bill No. 15
PAINTWORK

R

9	On narrow widths	m2	1
	A : 0 B : 0 C : 0 D : 0		
	E : 0 F : 1 G : 0		
	<u>ON FIBRE-CEMENT</u>		
	<u>One coat alkaline based primer and one coat universalundercoat and two coats superior quality universal enamelpaint</u>		
10	Ceilings including priming metal cover strips and nailheads	m2	206
	A : 113 B : 36 C : 21 D : 0		
	E : 24 F : 14 G : 0		
11	Cornices, not exceeding 300mm girth	m	231
	A : 127 B : 37 C : 16 D : 0		
	E : 29 F : 21 G : 0		
12	Fascia & Barge board	m2	49
	A : 20 B : 11 C : 7 D : 0		
	E : 6 F : 4 G : 0		
13	Door Frames	m2	41
	A : 24 B : 0 C : 8 D : 0		
	E : 3 F : 6 G : 0		
14	Gutters and downpipes	m2	74
	A : 61 B : 0 C : 5 D : 0		
	E : 2 F : 7 G : 0		
	<u>Two coats alkyd based zinc phosphate primer and two coatspremium quality polyurethane enamel paint, on steel</u>		
15	On windows and buglars	m2	41
	A : 16 B : 0 C : 7 D : 0		
	E : 14 F : 3 G : 0		
	<u>ON WOOD</u>		
	<u>Three coats superior quality clear gloss varnish</u>		
16	Doors	m2	68
	A : 29 B : 0 C : 18 D : 0		
	E : 7 F : 14 G : 0		
	Carried to Collection		
	Section No. 2		
	Bill No. 15		
	PAINTWORK		

R

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PRASA - SYDENHAM STATION

Section No. 2

Bill No. 15

PAINTWORK

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

93

94

95

96

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 15

PAINTWORK

Item No		Quantity	Rate	Amount
	<u>SECTION 2</u>			
	<u>BILL NO 16</u>			
	<u>EXTERNAL WORKS</u>			
	<u>PREAMBLES</u>			
	For preambles refer to "Model Preambles for Trades"			
	<u>GRASSING, GROUND COVERS, etc</u>			
1	"Kikuyu" roots in rows at 250mm centres	m2	300	
	<u>WATER SUPPLY</u>			
2	Excavation in earth exceeding 1m and not exceeding 2m deep in pipe trenches	m3	345	
3	Backfilling to pipe trenches compacted to 90% Mod AASHTO density	m3	21	
4	Selected granular filling in bedding under and filling around pipes	m3	11	
5	100mm crushed stone bedding under pipes	m3	11	
	<u>Class 12 Upvc pressure pipes</u>			
	<u>Pipes with solvent welded joints</u>			
6	75mm Diameter uPVC pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	115	
	<u>Extra over class 12 Upvc pressure pipes for fittings with solvent welded joints</u>			
7	75mm Diameter Bend (Various degrees)	No	13	
	Carried to Collection			R
	Section No. 2			
	Bill No. 16			
	EXTERNAL WORKS			

	<u>Class 12 HDPE type IV pipes</u>				
8	25mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	10		
	<u>Extra over class 12 HDPE type IV pipes for plasson fittings</u>				
9	25mm Bend	No	5		
10	25mm Diameter Tee	No	2		
	<u>Municipal connection</u>				
11	Provide the sum of R 5000.00 for municipal connection		Item		
	<u>Testing</u>				
12	Testing water pipe system		Item		
	<u>Precast concrete circular inspection chambers including precast concrete cover slabs (covers elsewhere) and channels in benching</u>				
13	1000mm Diameter inspection chamber not exceeding 1m deep internally	No	2		
	<u>Valves and Meters</u>				
14	110mm Ball valve	No	2		
	<u>SOIL DRAINAGE</u>				
15	Excavation in earth exceeding 1m and not exceeding 2m deep for pipe trenches	m3	56		
16	Backfilling to pipe trenches compacted to 90% Mod AASHTO density	m3	29		
17	Selected filling blanket compacted to 90% Mod AASHTO	m3	10		
18	Selected granular filling in bedding under and filling around pipes	m3	10		
Carried to Collection				R	
Section No. 2					
Bill No. 16					
EXTERNAL WORKS					

	<u>Risk of collapse of excavations</u>				
19	Sides of trench and hole excavations not exceeding 2m deep	m2	12		
	<u>Extra over all excavations for carting away</u>				
20	Surplus material from excavations and/or stock piles on site to a dumping site	m3	11		
	<u>uPVC class 34 sewer and drain pipes</u>				
21	160mm Diameter Pipes vertically or ramped to cleaning eyes etc (no excavation)	m	3		
22	160mm Diameter Pipes laid in trenches (trenches elsewhere)	m	55		
23	110mm Diameter Pipes laid in trenches (trenches elsewhere)	m	5		
	<u>Extra HDPE sewer and drain pipes for fittings</u>				
24	110mm Bend	No	1		
25	160mm Bend	No	1		
26	110mm Junction	No	3		
27	160 to 110mm Reducing Junction	No	1		
28	110mm Access pipe	No	2		
29	110mm Access bend	No	3		
30	110mm Access junction	No	2		
31	110mm Access reducing junction	No	1		
32	110mm Rodding eye	No	2		
33	110mm Overflow gulley head	No	1		
34	110mm gulley P trap	No	1		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 16				
	EXTERNAL WORKS				

	<u>Normal duty (Class 34) uPVC sewer and drain pipes</u>		
35	50mm Pipes	m	55
	<u>Extra over normal duty (Class 34) uPVC sewer and drain pipes for fittings</u>		
36	50mm Bend	No	18
37	50mm Junction	No	5
38	50mm Reducing Junction	No	9
39	50mm Access Bend	No	18
	<u>uPVC Gulleys</u>		
40	110mm Gulley not exceeding 500mm deep	No	2
	<u>Manhole</u>		
	<u>Precast concrete manholes, complete with floor slab, benching, walls, roof slab cover and steps irons complete. Rate should include for all excavation and re-compaction to 93% Mod AASHTO density and for cutting of pipes to fit</u>		
41	2.0m	No	6
	<u>PRECAST CONCRETE PAVING</u>		
	<u>Site clearance</u>		
42	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	375
	<u>Excavation in earth not exceeding 2m deep</u>		
43	425mm Deep over site between buildings, retaining walls, etc to remove top soil and dispose	m3	169
	<u>Extra over all excavations for carting away</u>		
44	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	113
Carried to Collection			
Section No. 2			
Bill No. 16			
EXTERNAL WORKS			

R

	<u>Earth filing supplied by the contractor under parking areas, roadways, etc</u>				
45	Sub-base course of G5 material in accordance with SANS 1200 DM, stabilised to attain UCS>1,0 Mpa after seven days and compacted to 95% modAASHTO	m3	113		
	<u>Compaction</u>				
46	Compaction of ground surface under pavings for IN 150mm layers of G5 material compacted to 95% Mod AASHTO	m2	750		
	<u>Paving of 80mm thick Type S-A Interlocking paving blocks, laid on 20mm thick river sand bed including preparation of ground or filling</u>				
47	Paving bricks	m2	375		
	<u>Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing</u>				
48	180 x 300mm High kerbs (SANS 927 fig 3) with 150 x 225 x 225mm unreinforced concrete haunching at back of each joint, including excavation, backfilling, etc	m	80		
	<u>20MPa/19mm unreinforced concrete</u>				
49	Edging to kerbs etc	m3	0.5		
	<u>GROUND SURFACE INDICATORS</u>				
50	Install tactile in line with PRASA specification	m	50		
	<u>FENCING</u>				
	<u>Inspect, replace and repair galvanised steel palisade fence, with steel post, stays, etc including site clearance, ground preparations, excavations and concrete works</u>				
51	Galvanised steel palisade fence of 2.4m high	m	270		
52	Galvanised steel palisade Gate of 40mm diameter framing 1340 x 2400mm high vertical	No	1		
Carried to Collection				R	
Section No. 2					
Bill No. 16					
EXTERNAL WORKS					

Section No. 2

Bill No. 16

EXTERNAL WORKS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

Amount

98

99

100

101

102

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 16

EXTERNAL WORKS

**Item
No**

Quantity

Rate

Amount

SECTION 2

BILL NO 17

PROVISIONAL SUMS

PREAMBLES

For preambles refer to "Model Preambles for Trades"

Selected Sub - Contractors

The following Provisional Amounts are to be tendered separately and the contractor/ specialist to be appointed by the Main Contractor as a Selected Sub Contractor and not as Nominated Sub Contractor. The Main Contractor will be allowed to tender for such work

The Contractor may allow under the "profit" item for any profit he considers necessary. If the Contractor allows an amount for profit, this amount will be adjusted in direct proportion to the final value of the specialist work

Attendance on Nominated and selected Sub-Contractors

Each provisional sum in this bill is followed by an item under which the Contractor may allow for attendance on the specific Sub-contractor

The amounts of the items for "Attendance" are to allow for giving every facility to attending upon and making good in all trades after the Specialists have completed their work, for providing the use of all water, electricity, storage space for materials, etc., the use of general amenities, i.e. latrines, etc., for the specialists and their workmen. For maintaining conduits, sleeve pipes, etc., in position during the building operations and providing the use of all ordinary scaffolding and plant. The Contractor is to leave erected scaffolding in position for the period required for work by the nominated sub-contractors under this contract.

Carried to Collection

R

Section No. 2
Bill No. 17
PROVISIONAL SUMS

COMMUNITY LIASON OFFICER

- 1 Provide the sum of R 32 000,00 (Thirty Two Thousand Rand) for Community Liason Officer (CLO)
- 2 Attendance
- 3 Profit

Item	32 000,00
%	
%	

ELECTRICAL ENGINEERING WORK

- 4 Provide the sum of R 860 000 (Eight Hundred and Sixty Thousand Rand) for Electrical engineering work including alternative standby power
- 5 Attendance
- 6 Profit

Item	860 000,00
%	
%	

MECHANICAL ENGINEERING WORK

- 7 Provide the sum of R 370 000 (Three Hundred and Seventy Thousand Rand) for Mechanical engineering work
- 8 Attendance
- 9 Profit

Item	370 000,00
%	
%	

SIGNAGE

- 10 Provide the sum of R 80 000 (Eighty Thousand Rand) for Signage internally and externally
- 11 Attendance
- 12 Profit

Item	80 000,00
%	
%	

WAYLEAVE

- 13 Provide the sum of R 90 000 (Ninety Thousand Rands) for the application of wayleaves as per PRASA requirements

Item	90 000,00
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Carried to Collection

R

Section No. 2
Bill No. 17
PROVISIONAL SUMS

PRASA - SYDENHAM STATION

TOPOGRAPHICAL SURVEY

- 14 Provide the sum of R 30 000 (Thirty Thousand Rands) for provision of topographical survey

Item 30 000.00

GEOTECHNICAL INVESTIGATIONS

- 15 Provide the sum of R 40 000 (Forty Thousand Rands) for provision of geotechnical investigations

Item 40 000.00

**WORK TO BE PERFORMED BY LOCAL
SELECTED SUBCONTRACTORS**

- 16 Provide the sum of R 200 000 (Two Hundred Thousand Rands) for work to be done by Local Selected Subcontractors

Item 200 000.00

Carried to Collection

R

Section No. 2
Bill No. 17
PROVISIONAL SUMS

Section No. 2

Bill No. 17

PROVISIONAL SUMS

COLLECTION

Total Brought Forward from Page No.

**Page
No**

104

105

106

Amount

Carried Forward to Summary of Section No. 2

R

Section No. 2

Bill No. 17

PROVISIONAL SUMS

-108-

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