



Item
No

SECTION NO 1

BILL NO.1

PRELIMINARIES AND GENERAL

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 Preliminaries , May 2018 edition for use with the JBCC Principal Building Agreement Edition 6.2 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. Where an item is not relevant to this specific contract 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, Value Related or Time Related 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

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS AND INTERPRETATION

A1.0 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

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PRELIMINARIES AND GENERAL

Quantity

Amount

R



R	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 commencement date and ending on the date of practical completion Clause 1.1 Definition of "Corrupt Practice" is added: "CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in 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 tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive 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) 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 Carried to Collection
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No clause		
2	A2.0 LAW, REGULATIONS AND NOTICES Clause 2.0 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	Fixed: _____ Value related: _____ Time related: _____
3	A3.0 OFFER AND ACCEPTANCE Clause 3.0	Fixed: _____ Value related: _____ Time related: _____
4	A4.0 CESSION AND ASSIGNMENT Clause 4.0	Fixed: _____ Value related: _____ Time related: _____
5	A5.0 DOCUMENTS Clause 5.0 Clause 5.7 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	Fixed: _____ Value related: _____ Time related: _____
Carried to Collection		
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6	A6.0 EMPLOYER'S AGENTS	Clause 6.0 Clause 6.1 is amended by the addition of the following: This clause is amended to include clauses 26.7 in terms of which the employer has retained its authority and has not given a mandate to the principal agent and in terms of which the employer sign all documents	Fixed: _____ Value related: _____ Time related: _____	Item
7	A7.0 DESIGN RESPONSIBILITY	Clause 7.0 Clause 7.3 is amended by replacing it with the following: No clause	Fixed: _____ Value related: _____ Time related: _____	Item
8	A8.0 WORKS RISK	Clause 8.0	Fixed: _____ Value related: _____ Time related: _____	Item
9	A9.0 INDEMNITIES	Clause 9.0	Fixed: _____ Value related: _____ Time related: _____	Item
10	A10.0 INSURANCES	Clause 10.0 Clause 10.0 is amended by the addition of the following clauses:	Fixed: _____ Value related: _____ Time related: _____	Item
Carried to Collection				
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10.11 Damage to the Works

- (a) Without in any way limiting the **contractor's** 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 materials paid for by the **employer** that is the result of the excepted risks as set out in 10.12
- (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 27.0 hereof

10.12 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 whatsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence 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 negligence of any person for whose actions the **employer** is legally liable
- (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**

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R	(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 10.13 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: 10.13.1 Damage to the works The contractor shall, from the commencement date of the works 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 10.13.2 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 Carried to Collection
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10.13.3 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

10.13.4 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

Fixed:	Value related:	Time related:

11.2 In respect of contracts with a contract sum above R1 million, the contractor shall have the right to select the security to be provided in terms of 11.3, 11.4, 11.5, 14.6, or 11.7 as stated in the schedule. Such security shall be provided to the employer within twenty-one (21) calendar days from commencement date. Should the contractor fail to select the security to be provided or should the contractor fail to provide the employer with the selected security within twenty-one (21) calendar days from commencement date, the security in terms of 11.7 shall be deemed to have been selected.

11.3 Where security as a cash deposit of ten per cent (10%) of the contract sum (excluding VAT) has been selected:

11.3.1 The contractor shall furnish the employer with a cash deposit equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date

11.3.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall reduce the cash deposit to an amount equal to three per cent (3%) of the contract value (excluding VAT), and refund the balance to the contractor

11.3.3 Within twenty-one (21) calendar days of the date of final completion of the works the employer shall reduce the cash deposit to an amount equal to one per cent (1%) of the contract value (excluding VAT) and refund the balance to the contractor

11.3.4 On the date of payment of the amount in the final payment certificate, the employer shall refund the remainder of the cash deposit to the contractor.

11.3.5 The employer shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the employer complies with the provisions of 33.4 in which event the employer's entitlement shall take precedence over his obligations to refund the cash deposit security or portions thereof to the contractor

11.3.6 The parties expressly agree that neither the employer nor the contractor shall be entitled to cede the rights to the deposit to any third party

11.4 Where security as a variable construction guarantee of ten percent (10%) of the contract sum (excluding VAT) has been selected:

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R	11.4.1 The contractor shall furnish the employer with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date Clause 11.4.1 is deemed to be amended by the addition of the following sentence; No interest will be paid on such amounts withheld 11.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender 11.4.3 The employer shall return the variable construction guarantee to the contractor within fourteen (14) calendar days of it expiring 11.4.4 Where the employer has a right of recovery against the contractor in terms of 33.0, the employer shall issue a written demand in terms of the variable construction guarantee 11.5 Where security as a fixed construction guarantee of five per cent (5%) of the contract sum (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected: 11.5.1 The contractor shall furnish a fixed construction guarantee to the employer equal in value to five per cent (5%) of the contract sum (excluding VAT) 11.5.2 The fixed construction guarantee shall come into force on the date of issue and shall expire on the date of the last certificate of practical completion 11.5.3 The employer shall return the fixed construction guarantee to the contractor within fourteen (14) calendar days of it expiring 11.5.4 The payment reduction of the value certified in a payment certificate shall be in terms of clause 25. 11.5.5 Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall be entitled to issue a written demand in terms of the fixed construction guarantee or may recover from the payment reduction or may do both 11.6 Where security as a cash deposit of five per cent (5%) of the contract sum (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the payment certificate (excluding VAT) has been selected: Carried to Collection
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Item R	11.6.1 The contractor shall furnish the employer with a cash deposit equal in value to five per cent (5%) of the contract sum (excluding VAT) within twenty-one (21) calendar days from commencement date 11.6.2 Within twenty-one (21) calendar days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor 11.6.3 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of 25 11.6.4 Where the employer has a right of recovery against the contractor in terms of 27.0, the employer may issue a written notice in terms of 27.4 or may recover from the payment reduction or may do both 11.7 Where security as a payment reduction of ten per cent (10%) of the value certified in the payment certificate (excluding VAT) has been selected: 11.7.1 The payment reduction of the value certified in a payment certificate shall be <i>mutatis mutandi</i> in terms of clause 25 11.7.2 The employer shall be entitled to recover expense and loss from the payment reduction in terms of 27.0 provided that the employer complies with the provisions of 27.4 in which event the employer's entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the contractor 11.8 Payments made by the guarantor to the employer in terms of the fixed or variable construction guarantee shall not prejudice the rights of the employer or contractor in terms of this agreement 11.9 Should the contractor fail to furnish the security in terms of 11.2, the employer, in his sole discretion and without notification to the contractor, is entitled to change the contractor's selected form of security to that of a ten per cent (10%) payment reduction of the value certified in the payment certificate (excluding VAT), whereafter 11.7 shall be applicable Fixed: _____ Value related: _____ Time related: _____ EXECUTION A12.0 OBLIGATIONS OF THE PARTIES Clause 12.0 Clause 12.1.1 is amended by replacing it with: No clause Carried to Collection
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Item Item Item Item R		Clause 12.2.4 is amended by the addition of the following clause: 12.2.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (10) calendar days of commencement date Clause 12.2.7 is amended by replacing it with the following clause: Give the contractor possession of the site within ten (10) working days of the contractor complying with the terms of 12.2.4 Fixed: _____ Value related: _____ Time related: _____ A13.0 SETTING OUT OF THE WORKS Clause 13.0 Fixed: _____ Value related: _____ Time related: _____ A14.0 NOMINATED SUBCONTRACTORS Clause 14.0 Clause 14.1.5 is amended by replacing it with the following: No clause Note: See item B9.1 hereinafter for adjustment of attendance on nominated subcontractors executing work allowed for under provisional sums Fixed: _____ Value related: _____ Time related: _____ A15.0 SELECTED SUBCONTRACTORS Clause 15.0 Clause 15.1.2 to 15.5 and 15.2 to 15.5 is amended by replacing it with: The Contractor and principal agent shall appoint a selected subcontractor in accordance with the CIDB practice #7 Fixed: _____ Value related: _____ Time related: _____ A16.0 DIRECT CONTRACTORS Clause 16.0 Fixed: _____ Value related: _____ Time related: _____ Carried to Collection Bill No. 1 PRELIMINARIES AND GENERAL
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17	A17.0 CONTRACT INSTRUCTIONS	Fixed: _____ Value related: _____ Time related: _____	Item
18	A18.0 INTERIM COMPLETION	Fixed: _____ Value related: _____ Time related: _____	Item
19	A19.0 PRACTICAL COMPLETION	Fixed: _____ Value related: _____ Time related: _____	Item
20	A20.0 COMPLETION IN SECTIONS	Fixed: _____ Value related: _____ Time related: _____	Item
21	A21.0 DEFECTS LIABILITY PERIOD AND FINAL COMPLETION	Fixed: _____ Value related: _____ Time related: _____	Item
	Clause 21.0	Add the following to the end of sub-clause 21.1.2: "All civil, electrical, electronic, HVAC, fire detection, gas suppression and other specialist installations are subject to a three hundred and sixty five (365) calendar days defects liability and maintenance period. The contractor shall attend to defects during the works completion and defects liability periods on a progressive basis, to the satisfaction of the principal agent and will not be permitted to wait until the end of the defects liability period or until the amount of defects accumulate in order to attend to a comprehensive list of defects."	Item
	Fixed: _____ Value related: _____ Time related: _____		Item
	Carried to Collection		R
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22	A22.0 LATENT DEFECTS LIABILITY PERIOD	Clause 22.0	Fixed: _____ Value related: _____ Time related: _____	Item	
23	A23.0 REVISION OF DATE FOR PRACTICAL COMPLETION	Clause 23.0	i) The addition of the following clauses:- Sub-clause 23.9 "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 23.10 – Acceleration Sub-clause 23.10.1 "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 23.10.2 "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 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 23.10.3 "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."	Item	
24	A24.0 PENALTY FOR LATE AND NON-COMPLETION	Clause 24.0	Fixed: _____ Value related: _____ Time related: _____	Item	
	Carried to Collection			R	

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PAYMENT

25

A25.0 PAYMENT

Clause 25.0

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

The first sentence of sub-clause 25.10 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.

Fixed:

Value related:

Time related:

26

A26.0 ADJUSTMENT TO THE CONTRACT VALUE

Clause 26.0

Adjustment to the contract value (Clause 26.0)

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.

Fixed:

Value related:

Time related:

Item

R

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27	A27.0 RECOVERY OF EXPENSE AND LOSS	Clause 27.0	Clause 27.2 is amended by adding the following sub-clauses:	27.2.11 The contractor's failure or neglect to commence with the works on the dates prescribed in the contract.	27.2.12 The contractor's failure or neglect to proceed with the works in terms of the contract.	27.2.13 The contractor's failure or neglect for any reason to complete the works in accordance with the contract.	27.2.14 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.	27.2.15 The contractor's estate being sequestrated or surrendered in terms of the Insolvency laws in force within the Republic of South Africa."	Fixed: _____ Value related: _____ Time related: _____	SUSPENSION AND TERMINATION	A28.0 SUSPENSION BY BY CONTRACTOR	Clause 28.0	Fixed: _____ Value related: _____ Time related: _____	Carried to Collection	R	B II No. 1 PRELIMINARIES AND GENERAL
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29 A29.0 TERMINATION

Clause 29.0

Add the following sub-clauses 29.1.4 to 29.1.6 under 29.1 to read as follows:

29.1.4 The contractor's refusal or neglect to comply strictly with any of the conditions of contract.

29.1.5 The contractor's estate being sequestered, liquidated or surrendered in terms of the insolvency laws in force with the Republic of South Africa.

29.1.6 The contractor, in the judgment of the employer, has engaged in corrupt or fraudulent practices in competing for or in executing the contract.

Replace clause 29.3 with the following:

he 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

Clause 29.25.4

Replace "Sixty (60)" with "one hundred and twenty (120)".

Add the following sub-clauses 29.29 under 29 to read as follows:

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.

Fixed: _____ Value related: _____ Time related: _____

DISPUTE RESOLUTION

30 A30.0 DISPUTE RESOLUTION

Clause 30.0

Fixed: _____ Value related: _____ Time related: _____

Item

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SECTION B: JBCC PRELIMINARIES

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

Fixed: _____ Value related: _____ Time related: _____

Item

B2.0 DOCUMENTS

B2.1 Checking of documents

Fixed: _____ Value related: _____ Time related: _____

Item

B2.2 Provisional bills of quantities

Fixed: _____ Value related: _____ Time related: _____

Item

B2.3 Availability of construction documentation

Fixed: _____ Value related: _____ Time related: _____

Item

B2.4 Interests of agents

Fixed: _____ Value related: _____ Time related: _____

Item

B2.5 Priced documents

Fixed: _____ Value related: _____ Time related: _____

Item

B2.6 Tender submission

Fixed: _____ Value related: _____ Time related: _____

Item

Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance"

B3.0 THE SITE

B3.1 Defined works area

Fixed: _____ Value related: _____ Time related: _____

Item

B3.2 Geotechnical investigation

Fixed: _____ Value related: _____ Time related: _____

Item

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40	B3.3	Inspection of the site	Fixed: _____ Value related: _____ Time related: _____	Item	
41	B3.4	Existing premises occupied	Fixed: _____ Value related: _____ Time related: _____	Item	
42	B3.5	Previous work - dimensional accuracy	Fixed: _____ Value related: _____ Time related: _____	Item	
43	B3.6	Previous work - defects	Fixed: _____ Value related: _____ Time related: _____	Item	
44	B3.7	Services - known	Fixed: _____ Value related: _____ Time related: _____	Item	
45	B3.8	Services - unknown	Fixed: _____ Value related: _____ Time related: _____	Item	
46	B3.9	Protection of trees	Fixed: _____ Value related: _____ Time related: _____	Item	
47	B3.10	Articles of value	Fixed: _____ Value related: _____ Time related: _____	Item	
48	B3.11	Inspection of adjoining properties	Fixed: _____ Value related: _____ Time related: _____	Item	
B4.0 MANAGEMENT OF CONTRACT					
49	B4.1	Management of the works	Fixed: _____ Value related: _____ Time related: _____	Item	
50	B4.2	Programme for the works	Fixed: _____ Value related: _____ Time related: _____	Item	
51	B4.3	Progress meetings	Fixed: _____ Value related: _____ Time related: _____	Item	
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52	B4.4	Technical meetings	Fixed: _____ Value related: _____ Time related: _____	Item	
53	B4.5	Labour and plant records	Fixed: _____ Value related: _____ Time related: _____	Item	
B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS					
54	B5.1	Samples of materials	Fixed: _____ Value related: _____ Time related: _____	Item	
55	B5.2	Workmanship samples	Fixed: _____ Value related: _____ Time related: _____	Item	
56	B5.3	Shop drawings	Fixed: _____ Value related: _____ Time related: _____	Item	
57	B5.4	Compliance with manufacturers' instructions	Fixed: _____ Value related: _____ Time related: _____	Item	
B6.0 TEMPORARY WORKS AND PLANT					
58	B6.1	Deposits and fees	Fixed: _____ Value related: _____ Time related: _____	Item	
59	B6.2	Enclosure of the works	Fixed: _____ Value related: _____ Time related: _____	Item	
60	B6.3	Advertising	Fixed: _____ Value related: _____ Time related: _____	Item	
61	B6.4	Plant, equipment, sheds and offices	Fixed: _____ Value related: _____ Time related: _____	Item	
62	B6.5	Main notice board	Fixed: _____ Value related: _____ Time related: _____	Item	
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63	B6.6	Subcontractors' notice board	Fixed: _____ Value related: _____ Time related: _____	Item
64	B7.0	TEMPORARY SERVICES		
	B7.1	Location	Fixed: _____ Value related: _____ Time related: _____	Item
65	B7.2	Water	Fixed: _____ Value related: _____ Time related: _____	Item
66	B7.3	Electricity	Fixed: _____ Value related: _____ Time related: _____	Item
67	B7.4	Telecommunication facilities	Fixed: _____ Value related: _____ Time related: _____	Item
68	B7.5	Ablution facilities	Fixed: _____ Value related: _____ Time related: _____	Item
69	B8.0	PRIME COST AMOUNTS		
	B8.1	Responsibility for prime cost amounts	Fixed: _____ Value related: _____ Time related: _____	Item
	B9.0	ATTENDANCE ON N/S SUBCONTRACTORS		
70	B9.1	General attendance	Fixed: _____ Value related: _____ Time related: _____	Item
71	B9.2	Special attendance	Fixed: _____ Value related: _____ Time related: _____	Item
72	B9.3	Commissioning - fuel, water and electricity	Fixed: _____ Value related: _____ Time related: _____	Item
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B10.0 FINANCIAL ASPECTS				
73	B10.1	Statutory taxes, duties and levies	Fixed: _____ Value related: _____ Time related: _____	Item
74	B10.2	Payment for preliminaries	Fixed: _____ Value related: _____ Time related: _____	Item
75	B10.3	Adjustment of preliminaries	Fixed: _____ Value related: _____ Time related: _____	Item
		Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) working days of taking possession of the site" with "when submitting his priced bills of quantities / lump sum document"		
76	B10.4	Payment certificate cash flow	Fixed: _____ Value related: _____ Time related: _____	Item
	B11.0	GENERAL		
77	B11.1	Protection of the works	Fixed: _____ Value related: _____ Time related: _____	Item
78	B11.2	Protection / isolation of existing / sectionally occupied works	Fixed: _____ Value related: _____ Time related: _____	Item
79	B11.3	Security of the works	Fixed: _____ Value related: _____ Time related: _____	Item
80	B11.4	Notice before covering work	Fixed: _____ Value related: _____ Time related: _____	Item
81	B11.5	Disturbance	Fixed: _____ Value related: _____ Time related: _____	Item
82	B11.6	Environmental disturbance	Fixed: _____ Value related: _____ Time related: _____	Item
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83	B11.7	Works cleaning and clearing	Fixed: _____ Value related: _____ Time related: _____	Item
84	B11.8	Vermin	Fixed: _____ Value related: _____ Time related: _____	Item
85	B11.9	Overhand work	Fixed: _____ Value related: _____ Time related: _____	Item
86	B11.10	Instruction manuals and guarantees	Fixed: _____ Value related: _____ Time related: _____	Item
87	B11.11	As built information	Fixed: _____ Value related: _____ Time related: _____	Item
88	B11.12	Tenant installations	Fixed: _____ Value related: _____ Time related: _____	Item
89	B12.1	Schedule of variables	Fixed: _____ Value related: _____ Time related: _____	Item
B12.0 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/NO				
Carried to Collection				
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12.1.2 Availability of construction documentation
 YES/NO
 [2.3] Construction documentation is complete

12.1.3 Interests of agents
 Details:
 [2.4]

12.1.4 Defined works area
 Details:
 [3.1]

12.1.5 Geotechnical investigation
 Details:
 [3.2]

12.1.6 Existing premises occupied
 Specific requirements:
 [3.4]

12.1.7 Previous work - dimensional accuracy
 Details:
 [3.5]

12.1.8 Previous work - defects
 Details:
 [3.6]

12.1.9 Services - known
 Details:
 [3.7]

12.1.10 Protection of trees
 Specific requirements:
 [3.9]

12.1.11 Inspection of adjoining properties
 Specific requirements:
 [3.11]

12.1.12 Enclosure of the works
 Specific requirements:
 [6.2]

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12.1.13 Offices	[6.4.3] Specific requirements: The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times	
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 3 x 3m as per Drawing, 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 board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering	
12.1.15 Subcontractors' notice board	[6.6] A notice board is required YES/NO Specific requirements:	
12.1.16 Water	[7.2] Option A (by contractor) YES/NO Option B (by employer - free of charge) YES/NO Option C (by employer - metered) YES/NO	
12.1.17 Electricity	[7.3] Option A (by contractor) YES/NO Option B (by employer - free of charge) YES/NO Option C (by employer - metered) YES/NO	
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12.1.18 Telecommunications	[7.4] Telephone YES/NO	Facsimile YES/NO	E-mail YES/NO	12.1.19 Ablution facilities [7.5] Option A (by contractor) YES/NO Option B (by employer) YES/NO	12.1.20 Protection of existing/sectionally occupied works [11.2] Protection is required YES/NO	12.1.21 Special attendance [9.2] Subcontractor (1) details:	Subcontractor (2) details:	Subcontractor (3) details:	Subcontractor (4) details:	12.1.22 Protection of the works [11.1] Specific requirements:	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:	12.2 POST-TENDER INFORMATION	Carried to Collection	R	Bill No. 1 PRELIMINARIES AND GENERAL
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12.2.1 *Payment of preliminaries*
 [10.2] Option A (prorated)
 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:

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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

C1.0 CONTRACT DRAWINGS

* Select relevant paragraph and delete whichever is not applicable depending on whether the contract is based on a *bills of quantities* or *lump sum document*

* 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

* A full set of drawings is issued with the tender documents indicating the full 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 understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

90

C2.0 GENERAL PREAMBLES

Fixed: _____ Value related: _____ Time related: _____

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website (<http://www.publicworks.gov.za/> under "Consultants Guidelines"), and 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

C3.0 TRADE NAMES

Fixed: _____ Value related: _____ Time related: _____

Wherever a trade name for any product has been described in the **bills of quantities / lump sum document**, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the **principal agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: _____ Value related: _____ Time related: _____

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93 C4.0 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 DPW-23(EC) 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)

Fixed: _____ Value related: _____ Time related: _____
 The site is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the site for tendering purposes

94 C5.0 VIEWING THE SITE IN SECURITY AREAS

Fixed: _____ Value related: _____ Time related: _____

As the works falls within a security area the contractor must give the unit commander or other responsible officer notice before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account

95 C6.0 COMMENCEMENT OF WORKS IN SECURITY AREAS

Fixed: _____ Value related: _____ Time related: _____

As the works falls within a security area the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

96 C7.0 ENTRANCE PERMITS TO SECURITY AREAS

Fixed: _____ Value related: _____ Time related: _____

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C8.0 SECURITY CHECK OF PERSONNEL

97

The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified

In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works

Fixed: _____ Value related: _____ Time related: _____

C9.0 PROHIBITION ON TAKING OF PHOTOGRAPHS

98

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: _____ Value related: _____ Time related: _____

C10.0 HIV/AIDS AWARENESS

99

It is required of the contractor to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A 31.0 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

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C10.1 AWARENESS CHAMPION

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

Fixed: _____
Value related: _____ Time

C10.2 AWARENESS WORKSHOPS

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

Fixed: _____
Value related: _____ Time

C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.

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

Fixed: _____
Value related: _____ Time

C10.4 ACCESS TO CONDOMS

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

Fixed: _____
Value related: _____ Time

Item

Item

Item

Item

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C10.5 MONITORING Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification Fixed: _____ Value related: _____ Time related: _____	Item	C11.0 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 Fixed: _____ Value related: _____ Time related: _____
C11.1 HI-VISIBILITY CONTRI-SUIT Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____	Item	101 PPE C11.1 HI-VISIBILITY CONTRI-SUIT Annual/ As required or needing replacing Fixed: _____ Value related: _____ Time related: _____
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102	C11.2 HI-VISIBILITY T-SHIRTS	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
103	C11.3 STEEL TOE-CAPPED SAFETY BOOTS	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
104	C11.4 HI-VISIBILITY SAFETY VEST	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
105	C11.5 SABS APPROVED HARD HAT	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
106	C11.6 HI-VISIBILITY RAIN SUITS	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
107	C11.7 STEEL TOE CAPPED GUMBOOTS	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
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108	C11.8 DUST MASKS (STIPULATE FFP)	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
109	C11.9 SAFETY GLASSES	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
110	C11.10 GLOVES (STIPULATE TYPE):	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
111	C11.11 SAFETY HARNESES	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
112	C11.12 ISSUE OF COVID-19 COMPLIANT FACE MASKS	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
113	C11.13 ISSUE OF DISPOSABLE GLOVES	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
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114	C11.14 ISSUE OF FACE SHIELDS	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
115	C11.15 OTHER	Annual/ As required or needing replacing	Fixed: _____ Value related: _____ Time related: _____	Item	
116	C11.16 SAFETY REPRESENTATIVE TRAINING	Training of safety representatives	Fixed: _____ Value related: _____ Time related: _____	Item	
117	C11.17 FIRST AIDER TRAINING	Training of first aiders	Fixed: _____ Value related: _____ Time related: _____	Item	
118	C11.18 FIRE FIGHTING TRAINING		Fixed: _____ Value related: _____ Time related: _____	Item	
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119	C11.19 BASIC FALL ARREST (US229998)	Once off or every 3 years	Fixed: _____ Value related: _____ Time related: _____	Item	
120	C11.20 BASIC FALL ARREST AND RESCUE (US229995 AND US229998)	Once off or every 3 years	Fixed: _____ Value related: _____ Time related: _____	Item	
121	C11.21 FALL PROTECTION PLANNER (US229998 AND 229994)	Once off or every 3 years	Fixed: _____ Value related: _____ Time related: _____	Item	
122	SCAFFOLDING (AS PER SANS10085) C11.22 SCAFFOLDING SUPERVISOR	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
123	C11.23 SCAFFOLDING INSPECTOR	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
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124	C11.24 SCAFFOLDING ERECTOR	Once off	Fixed: _____ related: _____ Value related: _____ Time _____	Item	
125	C11.25 INDUCTION TRAINING INCLUDING COVID AWARENESS		Fixed: _____ related: _____ Value related: _____ Time _____	Item	
126	C11.26 OTHER		Fixed: _____ related: _____ Value related: _____ Time _____	Item	
HEALTH AND SAFETY SALARIES					
127	C11.27 CHC MANAGER	Monthly Salary	Fixed: _____ related: _____ Value related: _____ Time _____	Item	
128	C11.28 CHC OFFICER	Monthly Salary	Fixed: _____ related: _____ Value related: _____ Time _____	Item	
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129	C11.29 COVID CONTROL OFFICER	Monthly Salary	Fixed: _____ Value related: _____ Time related: _____	Item	
130	C11.30 OTHER	Monthly Salary	Fixed: _____ Value related: _____ Time related: _____	Item	
131	<u>SPECIFIC HEALTH AND SAFETY ITEMS</u> C11.31 MEDICALS INCLUDING COVID SCREENING	Pre-placement, Annual and Exist	Fixed: _____ Value related: _____ Time related: _____	Item	
132	C11.32 SPILL KIT	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
133	C11.33 ACCOMMODATION OF TRAFFIC	Accommodation of Traffic as per Client tender BOQ	Fixed: _____ Value related: _____ Time related: _____	Item	
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134	C11.34 INDUCTIONS	Annual	Fixed: _____ Value related: _____ Time related: _____	Item
135	C11.35 FIRST AID KITS	Once off	Fixed: _____ Value related: _____ Time related: _____	Item
136	C11.36 FIRE EXTINGUISHERS	Once off	Fixed: _____ Value related: _____ Time related: _____	Item
137	C11.37 ABLUTIONS	Once off	Fixed: _____ Value related: _____ Time related: _____	Item
138	C11.38 BARRIER NETTING	Once off	Fixed: _____ Value related: _____ Time related: _____	Item
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145	C11.45 FIRE EXTINGUISHER	Once off	Fixed: _____ Value related: _____ related: _____ Time	Item	
146	C11.46 DIRECTIONAL SIGNAGE	Once off	Fixed: _____ Value related: _____ related: _____ Time	Item	
147	C11.47 EMERGENCY ASSEMBLY POINT	Once off	Fixed: _____ Value related: _____ related: _____ Time	Item	
148	C11.48 NO SMOKING SIGNAGE	Once off	Fixed: _____ Value related: _____ related: _____ Time	Item	
149	C11.49 LADIES AND MEN'S TOILETS SIGNAGE	Once off	Fixed: _____ Value related: _____ related: _____ Time	Item	
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150	C11.50 'NO NAKED FLAMES' SIGNAGE	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
151	C11.51 OTHER (OTHER SIGNAGE)	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
152	C11.52 HEALTH AND SAFETY PLAN SAFETY DOCUMENTATION	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
153	C11.53 HEALTH AND SAFETY FILE	Fixed: _____ Value related: _____ Time related: _____	Item		
154	C11.54 COVID PLAN AND PROCEDURES	Once off	Fixed: _____ Value related: _____ Time related: _____	Item	
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155	C11.55 FALL PROTECTION PLAN	Once off	Fixed:	Value related:	Time	related:	
156	C11.56 OTHER	Once off	Fixed:	Value related:	Time	related:	
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5	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density as top soil layer suitable for grassing	m3	1,377	
SOCCKERFIELD				
GRASSING				
Grassing with 'Kikuyu' grass				
6	Supply and lay 'Kikuyu' turf to level terrain evenly spread as per manufacturer instructions	m2	7,229	
PAINTWORK				
'Go Mark' or similar approved field marking paint to be applied to the manufacturer's instructions				
7	Painted lines 100mm wide to soccerfield	m	539	
SUNDRIES				
8	Watering, cutting and general maintenance of newly planted grass (until practical completion)	Item		
METALWORK				
Posts, etc				
9	Supply and fixing of goal posts, cross bars, bracings and net for 1 x soccer field to be powdercoated	Item		
WATER RETICULATION TO SPORTS FIELDS				
Excavation in earth not exceeding 2m deep				
10	Trenches for pipes	m3	28	
Extra over trench and hole excavation in earth for excavation in				
11	Soft rock	m3	3	
12	Hard rock	m3	1	
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Extra over all excavations for carting away

13 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor

FILLING

Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO density

14 Backfilling to trenches, holes, etc

WATER SUPPLIES

Trenches for pipes are measured elsewhere

Supply, handle, lay and bed pipes complete with couplings, test and disinfect

HDPE Class 6

15 40mm diameter pipes

m

95

16 32mm diameter pipes

m

125

Extra over HDPE Class 6 for fittings

17 32mm 90° bend

No

7

18 40mm 90° bend

No

6

19 40mm reducer

No

2

20 Extra over 32mm HDPE pipe for reducing T-junction and fitting 10m of 22mm HDPE pipe connected to and including galvanised iron stand pipe with threaded garden tap

No

2

Valves

21 32mm shut off valve

No

2

22 40mm shut off valve

No

1

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Pipe Tracing		Item	Item
23	Allow a sum of R2,500.00 for tracing of existing water reticulation pipes to join new HDPE pipes including all necessary adaptors, thrust blocks, and sundry repairs required to join new pipework		
24	Sprinkler system Allow a sum of R35,000.00 for a sprinkler system to the new soccer field comprising controllers, valves, connectors, adaptors, fittings, sprinklers and pipework to tie into the water reticulation		
WATER TANKS			
EXCAVATIONS, FILLING, ETC, OTHER THAN BULK			
25	Holes Excavation in earth not exceeding 2m deep	6	m3
26	Soft rock Excavation in earth for Extra over trench and hole excavations in earth for excavation in	0.3	m3
27	Hard rock Extra over all excavations for carting away	0.2	m3
28	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor Risk of collapse of excavations	6	m3
29	Sides of trench and hole excavations not exceeding 1,5m deep FILLING Imported G5 earthfilling supplied by the contractor compacted to 96% Mod AASHTO density: To holes	29	m2
30		1	m3
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31	Concrete Test Blocks	Making of 150 x 150 x 150mm concrete strength test cube, label and send to an approved laboratory for testing, including paying all charges and submit report to the Agent. (only successful tests will be paid for)	No	2	R	
	REINFORCED CONCRETE	25MPa/19mm concrete				
32	Concrete base	STEEL TANK STAND	m3	4		
	GALVANISED STEEL COLUMNS AND BEAMS	Structural steelwork to be fabricated and installed in accordance with the structural engineer's drawings				
	Welded beams, columns, bracing etc in single lengths with angle sections and connection plates, bolted to steel	125 x 50 x 20mm Cold Formed Lipped Channel	t	0.24		
		125 x 75 x 10mm Angle	t	0.12		
35	90 x 90 x 8mm Angle		t	0.48		
36	60 x 60 x 6mm Angle		t	0.19		
37	50 x 50 x 6mm Angle		t	0.10		
38	40 x 8mm flat bars		t	0.31		
Bolts to columns, beams, etc						
39	M20 chemical anchor bolt	TANKS, ETC	No	32		
		"Jojo" tanks or similar approved				
40	Low profile 10 000L water tank on steel surface complete with tie down wires	Carried to Collection	No	2		
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