

Item No	Quantity	Rate	Amount
<u>BILL NO. 1</u> <u>PRELIMINARIES</u> <u>PRELIMINARIES</u> <u>MEANING OF TERMS "TENDER / TENDERER"</u> 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" <u>PRELIMINARIES</u> The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition (Edition 6.1) published by the JBCC. <u>The bidder is deemed to have referred to these document for the full intend and meaning of each clause.</u> 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" <u>PRICING OF PRELIMINARIES</u> Should Option A, as set out in section D- Tenderer's Section in the contract Data , Under clause 26 Part 2 : CONTRACT DATA COMPLETED BY THE CONTRACT OR (PRINCIPAL BUILDING AGREEMENT : CONTRACT DATA) (JBCC Edition 6.1- March 2014) 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 <u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.1)</u> Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd			
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INTERPRETATION**1 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

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)

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PRELIMINARIES

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2	A2.0 LAW, REGULATION 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 requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification			
	Fixed: _____ Value related: _____ Time related: _____	Item		
3	A3.0 OFFER, ACCEPTANCE AND PERFORMANCE			
	Clause 3.0			
	Fixed: _____ Value related: _____ Time related: _____	Item		
4	A4.0 ASSIGNMENT AND CESSION			
	Clause 4.0			
	Fixed: _____ Value related: _____ Time related: _____	Item		
5	A5.0 CONTRACT DOCUMENTS			
	Clause 5.0			
	Clause 5.10 is amended by replacing " principal agent " with the word " employer "			
	Fixed: _____ Value related: _____ Time related: _____	Item		
6	A6.0 EMPLOYER'S AGENTS			
	Clause 6.0			
	Fixed: _____ Value related: _____ Time related: _____	Item		
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	Brought Forward		R	
7	A7.0 DESIGN REPONSIBILITY			
	Clause 7.0			
	Fixed: _____ Value related: _____ Time related: _____	Item		
8	INSURANCE AND SECURITY			
	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:	Item		
	10.12 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			
	Carried Forward		R	
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Brought Forward (b) 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 8.5 (c) 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 26.0 hereof 10.13 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 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 Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward (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 10.14 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: Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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10.14.1 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

10.14.2 Injury to person 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 contract

10.14.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.14.1 and 10.14.2. 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

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	Brought Forward		R	
	10.14.4 The Employer 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 10.14.1; 10.14.2 and 10.14.3. 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	A11.0 SECURITY Clause 11.0 Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>A12 EXECUTIONDUTIES OF THE PARTIES</u> <u>Clause 12.0 Fixed: _____ Value related: _____ Time related: _____</u>	Item		
12	A13 SETTING OUTDUTIES OF THE PARTIES Clause 13.0 Fixed: _____ Value related: _____ Time related: _____	Item		
13	A14.0 NOMINATED SUBCONTRACTORS Fixed: _____ Value related: _____ Time related: _____	Item		
14	A16.0 DIRECT SUBCONTRACTORS Fixed: _____ Value related: _____ Time related: _____	Item		
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	Brought Forward		R	
22	A30.0 DISPUTE RESOLUTION			
	Fixed: _____ Value related: _____ Time related: _____			
	Changes made to JBCC documentation			
	Changes to JBCC document			
	Fixed: _____ Value related: _____ Time related: _____	Item		
23	A31.0 AGREEMENT			
	Fixed: _____ Value related: _____ Time related: _____			
	Changes made to JBCC documentation			
	Changes to JBCC document			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	PART 2: CONTRACT DATA COMPLETED BY THE CONTRACTOR (PRINCIPAL BUILDING AGREEMENT: CONTRACT DATA) (JBCC Edition 6.1 March 2014)			
	<u>D. TENDERER'S SELECTION</u>			
24	11.0 Securities			
	Fixed: _____ Value related: _____ Time related: _____	Item		
25	19.0 Contractor's holiday period during the construction period			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
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Brought Forward		R
26	26.0 Payment and adjustment of Preliminaries Payment of Preliminaries Fixed: _____ Value related: _____ Time related: _____	Item
27	Adjustment of Preliminaries Fixed: _____ Value related: _____ Time related: _____	Item
28	Contract Value adjusted according to CPAP Indices Application Manual for use with P0151 indices published by Statistics South Africa, dated 1/1/2013 Fixed: _____ Value related: _____ Time related: _____	Item
<u>SECTION B: JBCC PRELIMINARIES</u>		
<u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
29	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
<u>B2.0 DOCUMENTS</u>		
30	B2.1 Checking of documents Fixed: _____ Value related: _____ Time related: _____	Item
31	B2.2 Provisional bills of quantities Fixed: _____ Value related: _____ Time related: _____	Item
32	B2.3 Availability of construction documentation Fixed: _____ Value related: _____ Time related: _____	Item
Carried Forward		R
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Brought Forward		R	
33	B2.4 Interests of agents Fixed: _____ Value related: _____ Time related: _____	Item	
34	B2.5 Priced documents Fixed: _____ Value related: _____ Time related: _____	Item	
35	B2.6 Tender submission Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance" Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B3.0 THE SITE</u>			
36	B3.1 Defined works area See also C4 - Site information (PG-03.2) and attached drawing Annexure A for deifined works area Fixed: _____ Value related: _____ Time related: _____	Item	
37	B3.2 Geotechnical investigation The contractor shall acquaint himself of the nature of the ground during the site inspection; the additional information will be available from the civil and or structural Engineer. (Geotechnical Investigation report is availabe, not attached to this BOQ) Fixed: _____ Value related: _____ Time related: _____	Item	
38	B3.3 Inspection of the site The tenderers shallbe required to attend compulsory breifing session as per advert in lieu of the Site Inspection. Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R	
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Brought Forward		R	
39	B3.4 Existing premises occupied Fixed: _____ Value related: _____ Time related: _____	Item	
40	B3.5 Previous work - dimensional accuracy Fixed: _____ Value related: _____ Time related: _____	Item	
41	B3.6 Previous work - defects Fixed: _____ Value related: _____ Time related: _____	Item	
42	B3.7 Services - known Fixed: _____ Value related: _____ Time related: _____	Item	
43	B3.8 Services - unknown The contractor shall be solely responsible for ensuring that every necessary precaution is taken to protect all existing services if any from any damage. The contractor shall furthermore ensure that no service are cut off to surrounding areas. Should this happen, the contractor shall timeously notify the principal agent and users of any such damage remedial work at his own cost he intends to do and shall state when such work will be executed. The contractor shall make any necessary allowance in his pricing for any disruption and cost that will be required to comply with any such unforeseen circumstances Fixed: _____ Value related: _____ Time related: _____	Item	
44	B3.9 Protection of trees Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R	
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Brought Forward

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B4.0 MANAGEMENT OF CONTRACT47 ***B4.1 Management of the works***

Clause 4.1 is hereby amended by the addition of the following:

The contractor shall, to the satisfaction of the principal agent provide in addition to the site representative, the services of an experienced and competent construction manager, who has sufficient experience and has successfully completed projects of similar size and complexity, supported by a management team who shall, inter-alia participate in all activities of the contractor and sub-contractors concerning this project and particular:

- a) Programming
- b) Scheduling
- c) Reporting
- d) Expediting and co-ordinating
- e) Procurement
- f) Liaison and Co- ordination of construction
- g) Commissioning , instruction, handover and follow up
- h) Monitoring and reporting on building activities taking place on site
- i) Quality control procedure

The names and CV's of the contractor's site management team shall be submitted together with this tender and after the principal agent's agreement on the composition thereof has been obtained, no changes shall be made nor shall any member of the said site team be removed from the site while remaining in the employment of the contractor without the principal agent's express written approval

Fixed: _____ Value related: _____ Time related: _____

Item

48 ***B4.2 Programme for the works***

Fixed: _____ Value related: _____ Time related: _____

Item

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Brought Forward		R	
49	B4.3 Progress meetings Fixed: _____ Value related: _____ Time related: _____	Item	
50	B4.4 Technical meetings Fixed: _____ Value related: _____ Time related: _____	Item	
51	B4.5 Labour and plant records Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>			
52	B5.1 Samples of materials Fixed: _____ Value related: _____ Time related: _____	Item	
53	B5.2 Workmanship samples Fixed: _____ Value related: _____ Time related: _____	Item	
54	B5.3 Shop drawings Fixed: _____ Value related: _____ Time related: _____	Item	
55	B5.4 Compliance with manufacturers' instructions Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B6.0 TEMPORARY WORKS AND PLANT</u>			
56	B6.1 Deposits and fees Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R	
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Brought Forward		R	
57	B6.2 Enclosure of the works Fixed: _____ Value related: _____ Time related: _____	Item	
58	B6.3 Advertising Fixed: _____ Value related: _____ Time related: _____	Item	
59	B6.4 Plant, equipment, sheds and offices Fixed: _____ Value related: _____ Time related: _____	Item	
60	B6.5 Main notice board Fixed: _____ Value related: _____ Time related: _____	Item	
61	B6.6 Subcontractors' notice board Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B7.0 TEMPORARY SERVICES</u>			
62	B7.1 Location Fixed: _____ Value related: _____ Time related: _____	Item	
63	B7.2 Water Fixed: _____ Value related: _____ Time related: _____	Item	
64	B7.3 Electricity Fixed: _____ Value related: _____ Time related: _____	Item	
65	B7.4 Telecommunication facilities Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R	
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	Brought Forward		R	
66	B7.5 Ablution facilities			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B8.0 PRIME COST AMOUNTS</u>			
67	B8.1 Responsibility for prime cost amounts			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B9.0 ATTENDANCE ON N/S SUBCONTRACTORS</u>			
68	B9.1 General attendance			
	Fixed: _____ Value related: _____ Time related: _____	Item		
69	B9.2 Special attendance			
	Fixed: _____ Value related: _____ Time related: _____	Item		
70	B9.3 Commissioning - fuel, water and electricity			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	<u>B10.0 FINANCIAL ASPECTS</u>			
71	B10.1 Statutory taxes, duties and levies			
	Fixed: _____ Value related: _____ Time related: _____	Item		
72	B10.2 Payment for preliminaries			
	Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
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Brought Forward		R	
73	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 "when submitting his priced bills of quantities / lump sum document " Fixed: _____ Value related: _____ Time related: _____	Item	
74	B10.4 Payment certificate cash flow Fixed: _____ Value related: _____ Time related: _____	Item	
	<u>B11.0 GENERAL</u>		
75	B11.1 Protection of the works Fixed: _____ Value related: _____ Time related: _____	Item	
76	B11.2 Protection / isolation of existing / sectionally occupied works The contractor shall provide, erect, alter as necessary maintain, remove and make good on completion of the work suitable hoardings as necessary for the enclosure of the works and protection of the public , to the satisfaction of the Principal Agent. Fixed: _____ Value related: _____ Time related: _____	Item	
77	B11.3 Security of the works Fixed: _____ Value related: _____ Time related: _____	Item	
78	B11.4 Notice before covering work Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R	
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Brought Forward		R	
79	B11.5 Disturbance Fixed: _____ Value related: _____ Time related: _____	Item	
80	B11.6 Environmental disturbance Fixed: _____ Value related: _____ Time related: _____	Item	
81	B11.7 Works cleaning and clearing Fixed: _____ Value related: _____ Time related: _____	Item	
82	B11.8 Vermin Fixed: _____ Value related: _____ Time related: _____	Item	
83	B11.9 Overhand work Fixed: _____ Value related: _____ Time related: _____	Item	
84	B11.10 Instruction manuals and guarantees Fixed: _____ Value related: _____ Time related: _____	Item	
85	B11.11 As built information Fixed: _____ Value related: _____ Time related: _____	Item	
86	B11.12 Tenant installations Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B12.0 SCHEDULE OF VARIABLES</u>			
87	B12.1 Schedule of variables Fixed: _____ Value related: _____ Time related: _____	Item	
Carried Forward		R	
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Brought Forward 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 12.1.2 Availability of construction documentation [2.3] <i>Construction documentation is complete</i> YES/NO 12.1.3 Interests of agents [2.4] Details: 12.1.4 Defined works area [3.1] Details: 12.1.5 Geotechnical investigation [3.2] Details: 12.1.6 Existing premises occupied [3.4] Specific requirements: 12.1.7 Previous work - dimensional accuracy [3.5] Details: Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward 12.1.8 Previous work - defects [3.6] Details: 12.1.9 Services - known [3.7] Details: The contractor shall be solely responsible for ensuring that every necessary precaution is taken to protect all existing services if any from any damage. The contractor shall furthermore ensure that no service are cut off to surrounding areas. Should this happen, the contractor shall timeously notify the principal agent and users of any such damage remedial work at his own cost he intends to do and shall state when such work will be executed. The contractor shall make any necessary allowance in his pricing for any disruption and cost that will be required to comply with any such unforeseen circumstances. 12.1.10 Protection of trees [3.9] Specific requirements: Applicable 12.1.11 Inspection of adjoining properties [3.11] Specific requirements: Applicable 12.1.12 Enclosure of the works [6.2] Specific requirements: All works to be enclosed 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 Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward 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 type Drawing GEN 063, 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 yes Option B (by employer - free of charge) YES/NO No Option C (by employer - metered) No YES/NO Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward 12.1.17 Electricity [7.3] Option A (by contractor) YES/NO YES Option B (by employer - free of charge) YES/NO Option C (by employer - metered) YES/NO 12.1.18 Telecommunications [7.4] Telephone YES Facsimile YES E-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 YES/NO Yes Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward 12.1.21 Special attendance [9.2] Subcontractor (1) details:Electrical Installations Subcontractor (2) details:Mechanical Installations Subcontractor (3) details: Electronic Installations Subcontractor (4) details: Structural Steel work, shopfront, furniture and equipment Subcontractor (5) details: IT equipment 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 12.2.1 Payment of preliminaries [10.2] Option A (prorated) YES/NO Option B (calculated) YES/NO Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward		R	
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		
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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

88 C1.0 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 understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

Fixed: _____ Value related: _____
Time related: _____

Item

89 C2.0 GENERAL PREAMBLES

The document Preambles will be the "ASAQS Model Preambles for trades-2008 and shall be read in conjunction with the bill of quantities and referred to for the full description of work to be done and material to be used

Fixed: _____ Value related: _____
Time related: _____

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90	C3.0 TRADE NAMES 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: _____	Item		
91	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 T2.13- Schedule of Imported Materials and Equipment) 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: _____	Item		
92	C5.0 EXISTING PREMISES OCCUPIED Refer to scope of Work Part C3 of this Bid Document for information on occupation of existing buildings Fixed: _____ Value related: _____ Time related: _____	Item		
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	Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd			

	Brought Forward		R	
93	C6.0 INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners profiles and like and satisfy himself as to the dimensional accuracy of all work executed und the previous contract which may affect his work Should any inaccurate or defective work be found, the Contractor shall immediately notify the principal agent in writing requesting his instruction with regards thereto and afford every facility to those rectify such inaccurate or defective work Fixed: _____ Value related: _____ Time related: _____	Item		
94	C7.0 VIEWING THE SITE IN SECURITY AREAS 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 Fixed: _____ Value related: _____ Time related: _____	Item		
95	C8.0 COMMENCEMENT OF WORKS IN SECURITY AREAS 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 Fixed: _____ Value related: _____ Time related: _____	Item		
	Carried Forward		R	
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	Brought Forward		R	
96	C9.0 ENTRANCE PERMITS TO SECURITY AREAS 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 Fixed: _____ Value related: _____ Time related: _____	Item		
97	C10.0 SECURITY CHECK OF PERSONNEL 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: _____	Item		
98	C11.0 COMMUNITY LIAISON OFFICER (CLO) The Contractor shall allow for and any and all cost necessary for the engagement of services of the Community Liaison officer (CLO) for the full duration of this contract A CLO will be identified by the local structure of the ward areas and appoint following fair and transparent interview process, to be conducted in the presence of local structure and the contractor representative , in order to assist the contractor in the procurement of nay local labour , etc. required for this project. The contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community			
	Carried Forward		R	
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Key Responsibility of the CLO are envisaged to include and not necessary be limited to:

1. Assisting local leadership in conducting skills and resources audit which facility sourcing labour from within the ward or targeted areas for employment as the required by the contractor
2. Assisting in sourcing labour -only domestic sub-contractor and the procurement of materials from local resources as required the contractor
3. Assisting the contractor by identifying areas of potential conflict and treats to the project or to stakeholders in the projects and recommended appropriate action to the contractor
4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise
5. Establishing and ensuring that sufficient and open communication channels between the contractor and work force are maintained
6. Establish and ensuring that efficient and open communication channels between contractor and work force are maintained.
7. Identifying and reporting to the Contractor regarding issues where communication between stakeholders is necessary ,recommended courses of action and facilitate such communications
8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.
9. Attending to the site meetings and project implementation meetings as required by the Contractor and prepare periodic reports may be required by the Contractor from time to time.
10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.

Bidders are to price twice the rate of unskilled local labour rate against this item for any and all Costs arising out of compliance with the foregoing and in the event of all Bidder failing to price Against this item of making

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	Brought Forward inadequate financial provision against this item for compliance as Aforesaid, then no claim for costs or additional cost incurred will be entertained by the Employer Fixed: _____ Value related: _____ Time related: _____			
99	C12.0 SKILLS DEVELOPMENT ON SITE Contractor in conforming to the object of the DHET skills Development objectives, that it's local Beneficiaries be capacitated with skills that will render them employable in the future .It is also the responsibility of the contractor that on the job training to labourers from whom the potential for further development has been identified. The contractor should also make provision for the possibility that there might local youth that will need to be placed on the projects with an intention to be provided support towards improving their level of competency and productivity Contractor shall also provide all necessary on the job training to targeted labour to enable such labour to master and advance on techniques required to undertake the work in accordance with requirement of the contract in a manner that does not compromise workers health and safety Fixed: _____ Value related: _____ Time related: _____	Item	R	
	Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd		R	

	Brought Forward		R	
100	C13.0 HIV/AIDS AWARENESS 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 25.0 of Section 1 : Preliminaries (Section A) or any other 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			
	C13.1 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 and Covid 19 Specification Fixed:_____ Value related:_____ Time related:_____	Item		
		Item		
	Carried Forward		R	
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Brought Forward C13.2 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 related: _____ C13.3 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 related: _____ C13.4 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 related: _____ Carried Forward Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd	Item Item Item	R	
		R	

	Brought Forward		R	
	C13.5 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		
101	C14.0 OCCUPATIONAL HEALTH AND SAFETY ACT			
	Tenderers are to allow for costs in providing a project specific "Construction Phase Safety, Health and Environmental Plan in accordance with" Section 2-Specification Data associated with SANS 1921 -1:2004 "clause C4.18 in Part C3 - Scope of work"			
	Fixed:_____ Value related:_____			
	Time related:_____	Item		
102	C15.0 NOTICE BOARD, SITE OFFICE,ETC			
	Bidders are to allow for the provision and removal of the project notice board and site office in accordance with principal agent requirement (See clause 12.2 of PBA)			
	Fixed:_____ Value related:_____			
	Time related:_____	Item		
	Carried Forward		R	
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	Brought Forward		R	
103	C15.0 Contract Price Adjustment Provision (CPAP) The contract Price Adjustment Provision (CPAP) will be subject to the most recently released indices by statistic South Africa Notwithstanding anything to the contrary contained in the JBCC PBA 6.1 Edition, this Contract shall be subject to the Contract Price Adjustment Provision indices Application Manual for use with P0151 indices (CPAP) (Revised 1 January 2013) as published by statistics South Africa . Bidders are advised that with reference to clause 3.4.6 of the contract Price Adjustment Provision (CPAP) indices application Manual, <u>The employer will not accept the submission by bidders of list of additional Items</u> Where this contract is lump sum contract, the contract will be subject to the Contract price adjustment Provision (CPAP) only where the contract period equals or exceeds 6 calendar months. The application work group shall be WG 180 for domestic building or WG 181 for commercial and industrial buildings. Fixed:_____ Value related:_____ Time related:_____	Item		
104	C17.0 Proprietary branded products The contractor shall take delivery of , handle store , use apply and /or fix all proprietary branded product in strict accordance with the manufacturer's instruction after consultation with the manufacturer's authorised representative. Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried Forward		R	
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Brought Forward		R
105	C18.0 Overtime Should overtime be required to be worked for any reason whatsoever, the cost of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing , prior to the execution thereof , that cost for such overtime are to be borne by the employer Fixed:_____ Value related:_____ Time related:_____	Item
106	C19.0 As Built drawings The position of construction breaks and the extend of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the Engineer/Principal agent and the structural for their records Fixed:_____ Value related:_____ Time related:_____	Item
107	C20.0 Site Instructions Site instruction issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor. Fixed:_____ Value related:_____ Time related:_____	Item
108	C21.0 Labour Records At the end of each week the contractor shall provide the Principal Agent with a written record, in schedule form reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day Fixed:_____ Value related:_____ Time related:_____	Item
Carried Forward		R
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	Brought Forward		R	
109	C22.0 Plant Records At the of each week the contractor shall provide the Principal Agent with a written record ,in the schedule form ,reflecting the number ,type and capacity of all plant ,excluding hand tools ,currently used on the works . Fixed:_____ Value related:_____ Time related:_____	Item		
110	C23.0 Non Cession of monies The contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract. Fixed:_____ Value related:_____ Time related:_____	Item		
111	C24.0 Sectional Completion When it is required that the contract be executed in sections or portions, the tenderer shall allow for all costs in this regard as no claim for additional costs will be entertained . Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried Forward		R	
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	Brought Forward		R	
112	C25.0 Import permits and duties The responsibility for obtaining the necessary imports permits shall rest with the successful Tenderer. No foreign exchange will be arranged or provided by the Administration .Tenderers are to allow in their tenders and pay the ordinary levy imposed on imported items in terms of item 196.10 of Part 8 of Schedule No.1 of the customs and Excise Act ,1964 with effect from 1 October 1989 Fixed:_____ Value related:_____ Time related:_____	Item		
113	C26.0 Local Labour It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract .Provided ,whoever ,that should adequate and appropriate labour not be available within the locality ,other may be employed subject satisfactory proof being provided ,that every reasonable endeavour has been made to employ local labour .The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of local labour in the construction process .In this regard, the Contractor shall furthermore give preference .Wherever possible to the employment of single heads of households ,women and youth .The contractor shall in generally maximise the involvement of the local community . Fixed:_____ Value related:_____ Time related:_____	Item		
	Carried to Summary		R	
	Bill No. 1 PRELIMINARIES Prepared by Tica Consultants Pty Ltd			

Item No	Quantity	Rate	Amount
<u>BILL NO.2</u>			
<u>ALTERATIONS</u>			
<u>MODEL PREAMBLES</u>			
<u>For preambles refer to "standard preambles to all trades as per WB20"</u>			
<u>NOTE:</u>			
<u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u>			
<u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u>			
<u>GENERAL NOTES</u>			
Tenderers are advised to visit the site before tendering and satisfy themselves as to the nature and extent of the work involved.			
The Contractor is advised to take all dimensions affecting the existing buildings on the site.			
The descriptions in the items are given as a guide and to assist Contractors in tendering, but are not necessarily accurate or complete. Contractors must verify the items by personal inspection on site.			
Unless otherwise stated the Contractor shall not remove or interfere with any furnishings, fittings or similar articles belonging to the Employer, tenants and/or their staff.			
Carried Forward		R	
Bill No. 2 ALTERATIONS Prepared by Tica Consultants Pty Ltd			

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LOSS BY THEFT, FIRE OR OTHERWISE

The risk of loss by theft, fire, storm, riot or otherwise of the buildings to be demolished and the materials therein, shall rest entirely with the Contractor immediately upon the handing over of the site. He shall take such steps as he may deem fit, for his own protection against such loss.

WATER AND OTHER PIPING

Any water supply or other piping that may be met with and found necessary to disconnect or cut are to be effectually stoped off and removed to the water meter (but excluding the water meter and stopcock box).

Prices for such items of demolitions, are where applicable to include for taking out and removing all sanitary fittings, plumbing and water supplies.

DEMOLITION, REMOVAL AND WORKS ON SITE

The Contractor shall demolish all the existing structures or buildings with a minimum amount of damage to adjoining buildings, materials, etc. Any damage caused is to be made good at his own expense with materials to match existing to the entire satisfaction of the Principle Agent.

Tenderers should take particular note of and allow accordingly in their prices for the type of structure and materials to be encountered and the thickness of walls, concrete slabs, etc., to be demolished. The Tenderer shall allow in his rates for the removal of material and carting away of materials from all the structures, buildings, etc.

All materials from the demolitions etc., except where described as being set aside for re-use or be handed over to the Employer, will become the property of the Contractor and, excepting as provided below, all such old materials are to be removed from the site by the Contractor, and rates for all work involving demolition are to include for the removal of any resultant rubble and superfluous material.

NOTE**Carried Forward**

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ALTERATIONS
Prepared by Tica Consultants Pty Ltd

Brought Forward Credit for all such old or reusable material is to be allowed in the appropriate space provided on the Summary Page. In pricing, credit for old materials shall not be offset against the charge so as to result in a net figure in the amount column but shall be set out in detail in the space provided at the end of this bill. The Employer reserves the right to retain any of the old materials at the prices shown in the list of credits or, if no credit is shown in that list, at no charge to the Employer. 1. Where lump sums must be submitted for the various items contained in this section of the Bills of Quantities, the Contractor shall satisfy himself as to the exact extent of the work and is to include in the charges for any differences found. Any items of work not described below, but which are required in order to comply with the requirements of this contract and are not priced anywhere else herein, must be included in the charges below. 2 The methods, equipment, etc., to be used will be left to the Contractor's discretion, providing the Contractor complies with the requirements of this Contract, all acts, regulations, by-laws and the like and the highest standards of demolition work. Should the Contractor elect to use explosives or any other demolition technique or method which would be necessitate insurance cover in addition to that already for herin, then the Contractor shall be responsible for arranging additional cover and produce proof thereof prior to commencement. The contractor will also be responsible for any additional excesses required in terms of that additional cover. 3 This document extends to outlining the requirements of the works. The Contractor shall provide fully detailed documentation, design and methodology on every aspect of the services being offered along with brochures, diagrams, photographs, etc., and the like clearly indicating every aspect of the method being offered and highlighting any deviation whatsoever from any aspect called for herein along with any alternative available. The contractor acknowledges that as a specialist and expert in his field, it is entirely his Carried Forward Bill No. 2 ALTERATIONS Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward

responsibility to draw the Architects and Engineers attention to any aspect, no matter how small or irrelevant, at the time of submitting his price, which in any way deviates from this document.

If such deviation is not specifically highlighted, it will be assumed that the Contractor is carrying out exactly that indicated and should such deviation be detected at any time whatsoever, the Architect and the Engineer reserve the right to instruct the contractor to rectify the aspect in question which the Contractor undertakes to initiate within 7 (seven) days of receipt of such instruction, at his own cost.

Old materials, if sound and suitable and approved by the Principle Agent, may be reused in the new works. Except as stated above, or where specifically so mentioned, no other materials from the demolition works are to be reused in the new works.

Prices for the demolition of any portion of the structure shall include for the demolition in its entirety, including all surface finishes such as plaster, screeds, etc., steps, all attached items of joinery such as skirtings, etc., and all reinforcement, conduit pipes, lintols, etc., built into that portion of the structure, and carting away.

Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trimmings.

Removal From Site

Where "removal from" or "spoil" occurs in terms, it shall include for all loading and carting away from the site to a suitable dumping site found by the Contractor and the Contractor shall pay all fees, etc., in this regard.

SUPPLEMENTARY PREAMBLES**Carried Forward**

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Brought Forward <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 of inferior or damaged materials will be entertained <u>Explosives</u> No explosives whatsoever may be used for demolition purposes unless otherwise stated <u>General</u> 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 re fixing including taking off, easing and rehangings, 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 Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc Carried Forward Bill No. 2 ALTERATIONS Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary 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) <u>Carting away of demolition material</u> Descriptions of carting away of demolition material shall be deemed to include loading demolition material onto trucks directly from the building or, alternatively, from stock piles situated on the building site to a legal dumping site including all dumping fees, transport costs etc. <u>NOTE:</u> <u>ALL RATES FOR ITEMS CONTAINED IN THIS BILL MUST BE COMPUTED EXCLUDING THE APPLICABLE VALUE ADDED TAX (VAT)</u> <u>THE FUNCTION OF THE BILL OF QUANTITIES IS TO SERVE AS A PRICING TOOL, IT SHOULD NOT BE USED TO ORDER MATERIALS OR AS A SCHEDULE OF SPECIFICATIONS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>Removing of works</u> Carried Forward Bill No. 2 ALTERATIONS Prepared by Tica Consultants Pty Ltd	R R
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Brought Forward			R
<u>When the word removing is mentioned in a description it is to mean that the contractor is to remove the item that is being referred to and dumped at a suitable site by the contractor.</u> <u>REMOVAL OF EXISTING WORK</u> <u>Breaking up and removing unreinforced concrete</u>			
1	Breaking down old toilet with brickwall structure of 6000mm x 4000mm x 3m high and roof sheeting at the top with windows and doors to be carefully removed for re-used or kept else where. sitting on top of the concrete foundation. contractor to remove and dump all rubble to the approved dumping area. back fill the pit hole with soil and level the platform.	Item	
<u>Hacking up/off and removing granolithic ,screeds , plaster , etc from concrete or brickwork and preparing surface for new screed , plaster , tile finishes , etc</u>			
2	Remove existing floor screeds.	m2	125
3	Remove concrete aprons around building.	m	96
4	Hack and remove plaster.	m2	545
5	Cleaning of walls.	m2	288
<u>Take out and remove sanitary fittings including making good wall and floor finishes and stop off services</u>			
6	Vitreous China WC pan and cistern	No	20
7	Remove metal urinary channel.	No	1
8	Vitreous wash hand basin including securely sealing off water supplies.	No	10
<u>Remove timber doors and windows,fascia boards ect</u>			
9	Remove timbers doors for toilets.	No	20
Carried Forward			R
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MAPALAGADI PRIMARY SCHOOL.

Brought Forward			R
10	Remove meranti timber entrance doors.	No	4
11	Remove barge boards and fascias.	m	45
	<u>Remove existing ceilings.</u>		
12	Remove ceilings in ablutions.	m2	107
Carried to Summary			R
Bill No. 2 ALTERATIONS Prepared by Tica Consultants Pty Ltd			

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>FOUNDATIONS (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>SITE CLEARANCE, ETC</u>			
	<u>Site clearance:</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc.	m2	123	
	<u>EXCAVATION, FILLING, ETC</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
2	Trenches	m3	49	
	<u>Extra over trench and hole excavations in earth for excavation in:</u>			
3	Soft rock	m3	100	
4	Hard rock	m3	100	
	<u>Extra over all excavations for carting away:</u>			
5	Surplus material from excavations and/stock piles on site to the dumping site to be located by the Contractor.	m3	160	
	<u>Risk of collapse of excavations:</u>			
6	Sides of trench and hole excavation not exceeding 1,5m deep.	m2	98	
	Carried Forward		R	
	Bill No. 3 FOUNDATIONS Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>Keeping excavations free of water:</u>			
7	Keeping excavations free of water.	Item	
<u>Earth filling obtained from the excavations and / or prescribed stock piles on site compacted to 93 % Mod AASHTO density</u>			
8	Backfilling to trenches, holes, etc	m3	16
9	Under floors, steps, pavings, etc	m3	5
<u>Compaction of surfaces:</u>			
10	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density.	m2	50
<u>Prescribed density tests on filling</u>			
11	"Modified AASHTO Density" test	No	3
<u>SOIL POISONING</u>			
<u>Soil insecticide:</u>			
12	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming.	m2	50
13	To bottoms and sides of trenches, etc.	m2	65
<u>CONCRETE AND FORMWORK</u>			
<u>REINFORCED CONCRETE</u>			
<u>25Mpa / 19mm Concrete:</u>			
14	Surface beds cast in panels on waterproofing	m3	30
Carried Forward			R
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Brought Forward			R
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>25MPa/19mm Concrete:</u>			
15	Strip footing	m3	15
<u>TEST BLOCKS</u>			
16	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional	No	24
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float: FLOORS</u>			
17	Surface beds, slabs, etc	m2	49
<u>ROUGH FORMWORK</u>			
<u>Rough formwork to sides:</u>			
18	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	65
<u>REINFORCEMENT</u>			
<u>Mesh reinforcement:</u>			
19	Mesh steel fabric reinforcement Ref 193 fabric reinforcement laid in surface beds, etc. lapped minimum 150mm along edges and ends (Measured net)	m2	49
20	Reinforcement	t	8.00
<u>BRICKWORK IN FOUNDATION</u>			
<u>Brickwork of NFP bricks in class II mortar:</u>			
21	Half brick walls	m2	18
22	One brick walls	m2	47
Carried Forward			R
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Brought Forward			R
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement:</u>			
23	75mm Wide reinforcement built in horizontally	m	50
24	150mm Wide reinforcement built in horizontally	m	80
<u>FACE BRICKWORK</u>			
<u>Face bricks (purchase price of R3 800 / 1000 delivered to site excluding VAT) pointed with recessed horizontal and vertical joints:</u>			
25	Extra over brickwork for face brickwork	m2	18
Carried to Summary			R
Bill No. 3 FOUNDATIONS Prepared by Tica Consultants Pty Ltd			

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>MASONRY</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>BRICKWORK SUNDRIES</u>			
	<u>Brick reinforcement:</u>			
1	75mm Wide reinforcement built in horizontally	m	174	
2	150mm Wide reinforcement built in horizontally	m	246	
	<u>Air Bricks</u>			
3	Standard 230 x 150mm with and including PVC and Terra-Cotta vermin proofed louvred air grating on the inside and outside.	No	15	
	<u>Turning pieces:</u>			
4	230mm Wide turning piece to lintel etc	m	45	
	<u>Galvanised wire ties etc:</u>			
5	4mm Diameter roof tie 2500mm girth bent double with one end fixed to timber and other built into brickwork (Provisional)	No	40	
	<u>FACE BRICKWORK</u>			
	<u>Face bricks (purchase price of R3 800, 00 / 1000 bricks delivered to site excluding VAT) pointed with recessed horizontal and vertical joints.:</u>			
6	Half brick wall of facebrick	m2	117	
	Carried Forward		R	
	Bill No. 4 MASONRY Prepared by Tica Consultants Pty Ltd			

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Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>ROOF COVERINGS ETC.</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	All roof coverings, etc., to be with a covering of Z275 galvanising. All holes to be drilled and not punched Where described as with "Chromadek" finish, all sheets, flashings, etc., shall be with "Chromadek" silicone polyester paint for exterior use			
	<u>Sizes</u>			
	All items are measured net unless otherwise described			
	<u>Flashings, trimming plates, etc.</u>			
	Prices to include for all cutting and waste and relevant fixing material, unless otherwise described			
	All rates for flashings, trimmings, etc., to include for forming drips and closed ends to troughs of sheet steel roof covering where applicable			
	All items are unless otherwise described measured net			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm IBR galvanized corrugated iron roof sheets fixed to timber purlins:</u>			
1	Roof covering with pitch not exceeding 25 degrees fixed to timber purlins	m2	99	
	Carried to Summary			R
	Bill No. 6 ROOF COVERINGS Prepared by Tica Consultants Pty Ltd			

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>ROOFS, ETC.</u>			
	<u>Sawn softwood</u>			
1	50 x 76mm Purlins in lenth exceeding 3.9m and not exceeding 6.6m	m	77	
2	38 x 114mm Beams lengths exceeding 3.9m and not exceeding 6.6m	m	76	
	<u>ROOF TIMBERS SUNDRIES</u>			
	<u>Sawn Softwood (Grade 5):</u>			
3	38 x 150mm Wall plate	m	36	
4	76 x 50mm Beamfill close rail	m	18	
	<u>Sundries:</u>			
5	Two coats creosote on sawn timbers	m2	100	
	<u>EAVES, VERGES, ETC</u>			
	<u>Everite FC77" pressed fibre-cement:</u>			
6	15 x 225mm Fascias and barge boards including galvanised steel H-profile jointing strips	m	122	
	<u>DOORS, ETC</u>			
	Carried Forward		R	
	Bill No. 7 CAPENTRY & JOINERY Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>Approved Semi solid doors with hardwood edges and 3,2mm standard hardboard covering on both sides hung to steel frames:</u>			
7	40mm Door, size 813 x 2032mm high (D2)	No	34
<u>Wrought meranti doors hung to steel frames:</u>			
8	44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and including weatherboard (D1)	No	13
Carried to Summary			R
Bill No. 7 CAPENTRY & JOINERY Prepared by Tica Consultants Pty Ltd			

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Brought Forward			R
<u>Union</u>			
3	75 x 150mm Natural anodised aluminium plate with male or female symbol	No	13
<u>SUNDRIES</u>			
4	38mm Diameter rubber door stop plugged	No	47
<u>Bathroom fittings:</u>			
5	Thief proof toilet roll holder plugged	No	36
Carried to Summary			R
Bill No. 8 IRONMONGERY Prepared by Tica Consultants Pty Ltd			

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Item No	Quantity	Rate	Amount
<u>BILL NO 11</u>			
<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
For preambles see "Specification of materials and methods to be used - PW 371"			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>uPVC pipes and fittings</u>			
Soil, waste and vent pipes and fittings shall be solvent weld jointed			
<u>uPVC pressure pipes and fittings</u>			
Pipes for water supply shall be of the class stated			
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			
<u>Copper pipes</u>			
Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground			
Carried Forward		R	
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward <u>Fixing of pipes</u> Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm 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 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained <u>Wire gratings</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings <u>Flush pans</u> Flush pans shall have straight or side outlets and "P" or "S" traps as necessary <u>Stainless steelbasins, sinks, wash troughs, urinals, etc.</u> Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings <u>RAINWATER DISPOSAL</u> Carried Forward Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd	R
	R

Brought Forward			R
<u>Seamless Aluminium</u>			
1	125 x 100mm Ogee eaves gutters with baked enamel finish fixed with concealed brackets (all to supplies spec).	m	122
2	Extra over eaves gutter for stopped end	No	8
3	Extra over eaves gutter for angle	No	8
4	Extra over eaves gutter for outlet for 100 x 75mm rectangular down pipe	No	8
5	100 x 75mm Rectangular rainwater pipes with 20 x 0,6mm brackets fixed to wall with and including oiled 100 x 75 x 25mm wrought hardwood blocks plugged	m	28
6	Extra over rainwater pipe for bend	No	4
7	Extra over rainwater pipe for shoe	No	4
8	Joint between end of 100 x 75mm rainwater pipe and top of tank	No	2
<u>SOIL DRAINAGE uPVC Pipes:</u>			
9	110mm pipes vertically or ramped to cleaning eyes etc (no excavation)	m	65
10	110mm Pipes laid in including trenches not exceeding 1m deep.	m	100
<u>Extra over uPVC pipes for fittings:</u>			
11	110mm Bend.	No	33
12	110mm Junction.	No	33
13	110mm Access junction.	No	33
<u>Pre-cast concrete gulleys:</u>			
14	150mm Gulley not exceeding 2000mm deep.	No	4
Carried Forward			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>Gratings, covers, etc:</u>			
15	110mm Roding eye.	No	4
16	100mm ABC cast iron cleaning eye cover.	No	4
<u>Sundries:</u>			
17	Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock	m3	3
18	Extra over excavation in earth for pipe trenches, chamber,etc for excavation in hard rock.	m3	4
<u>SANITARY FITTINGS</u>			
<u>Approved:</u>			
19	Vitreous china Daisy semi close suite with 90degree washdown pan (code 7514000) and matching vandal proof 6litre Hibiscus code (710511) cistern complete with front flush push button, lid, fitments and flushpipe and Hart Calmac heavy duty solid white double flap toilet seat.	No	33
20	Single bowl concrete wash trough, size 500 x 600 x 258mm fitted to wall with and including concrete legs and plug, chain and waste union	No	3
21	Urinary	No	3
22	Wash hand basin	No	18
23	Water fountain including all fittings and taps.	No	4
<u>TAPS, VALVES, ECT</u>			
<u>'Cobra Watertech' or similar approved:</u>			
24	331 4ST-15 Stella square pattern pillartap	No	18
25	232/350 Angle regulating valve	No	18
Carried Forward			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
26	20mm Brass fullway gate wheelvalve (SABS 776-Class 9) with non-rising spindle	No	18
<u>SANITARY PLUMBING</u>			
Soil waste and vent and fitting shall be solvent welded jointed			
<u>uPVC pipes</u>			
27	50mm Pipes.	m	60
28	50mm Pipes laid under solid floors.	m	45
<u>Extra over uPVC pipes for fittings:</u>			
29	50mm Bend.	No	17
30	50mm IE Bend	No	22
31	50mm Vent valve	No	33
32	110mm Access bend	No	14
33	110mm Junction	No	17
34	110mm Access junction	No	12
35	110mm Reducing junction	No	15
36	110mm GI Two way vent valve	No	33
37	110mm IE Bend.	No	33
38	110mm Pan Connector	No	33
39	Testing waste pipe system	Item	
<u>WATER SUPPLIES</u>			
<u>HDPE pressure pipes class 12:</u>			
40	25mm Pipes laid in and including trenches not exceeding 1m deep.	m	75
Carried Forward			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
41	35mm Pipes laid in and including trenches not exceeding 1m deep.	m	71
<u>Extra over HDPE pressure pipes for "plascon" fittings:</u>			
42	25mm Copper elbow adaptor.	No	45
43	35mm Copper elbow adaptor.	No	17
<u>CLASS O copper pipes:</u>			
44	15mm Pipes	m	69
45	22mm Pipes.	m	73
<u>Extra over class 0 copper pipes for capillary fittings:</u>			
46	15mm Fittings	No	24
47	22mm Fittings	No	22
<u>TESTING</u>			
48	Testing water supply system	Item	
<u>"ENVIROLOO SYSTEM"</u>			
49	Supply,setup and erect complete"Enviroloo System" as per manufactures instructions.	No	3
50	Supply,setup and erect complete"Enviroloo Sytem" as per manufactures instructions suitable for urinals with and including armoured glass.	No	1
51	Allow for site visit to be made by "enviroo loo" suppliers to assist/support the contractor in the installation of the "enviro loo" and a final inspection to ascertain the enviro loo has been installed correctly at which time a certificate of compliance should be issued between end-user department and enviro loo supplier.	Item	
52	Profit and attendance of the above	Item	
Carried Forward			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>SOIL AND WASTE DRAINAGE</u>			
53	110 mm Pipes laid in and including trenches not exceeding 1 m deep	m	50
<u>Extra over uPVC pipes for fittings:</u>			
54	110mm Diameter bends	No	5
55	110mm Diameter junction	No	5
56	110mm Rodding eye incl. concrete cover	No	1
<u>GULLIES</u>			
57	110 mm uPVC gulley complete with and including 750 x 500 x 170mm precast concrete gulley surround on 75mm Class C concrete base and fitted with 187mm diameter uPVC grating.	No	8
<u>WATER SUPPLIES</u>			
<u>Class 16 polyethylene (HDPE) pipes laid in ground not exceeding 1 m deep including backfilling and compacting of trenches:</u>			
58	28mm Diameter Pipe.	m	50
59	32mm pipes	m	280
60	50mm dia. Pipe	m	160
<u>Extra over piping for "Plasson" high compression fittings:</u>			
61	28mm Fittings	No	1
62	32mm Fittings	No	1
63	50mm Fittings.	No	1
<u>Valves, etc.:</u>			
64	28mm Flanged Stainless steel valve with teflon seat	No	2
Carried Forward			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
65	32mm Flanged Stainless steel gate valve with teflon seat	No	2
66	50mm Flanged Stainless steel gate valve with teflon seat.	No	2
67	50mm Diameter non-return valve.	No	2
68	50mm Diameter isolating valve.	No	2
69	50mm Diameter 400kPa pressure control valve.	No	2
<u>WATER FLOW METER AND CHAMBER</u>			
<u>Water flow meter complete with all flange adaptors and connected to pipework complete with 2410mm x 1960mm x 2200mm Deep chamber on plan (elsewhere measured) made up of a one brick wall, 20/19mm 150mm thick top slab and 200mm thick concrete bottom slab, with 4 (No.) Terracotta air bricks; cast iron type 9A cover and C.I. step irons 11 (No.) cast in at 300mm centres staggered:</u>			
70	200mm Diameter water flow meter complete with all flange adaptors, connection to pipes, labour, etc.	No	
<u>FIRE WATER RETICULATION</u>			
71	Search, locate and excavate for and cut into existing 65mm copper fire water pipe and insert new fitting (elsewhere measured)	No	
<u>Class 12 polyethylene (HDPE) pipes laid in ground not exceeding 1 m deep including backfilling and compacting of trenches:</u>			
72	50mm Diameter fire pipe.	m	
73	110mm Diameter fire pipe.	m	
<u>Extra over piping for "Plasson" or similar and approved high compression fittings:</u>			
74	50mm Fittings.	No	10
75	110mm Fittings.	No	2
Carried Forward			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>Valves, etc.:</u>			
76	110mm "Vent-O-Mat series RBX-DN25" or similar and approved air valve.	No	1
77	110mm "Optima 2000" or similar and approved water meter.	No	1
78	110mm Flanged Stainless steel gate valve with teflon seat.	No	1
<u>The following in booster connection:</u>			
79	Double booster connection.	No	1
80	110mm Galvanised steel piping.	m	5
81	Prepare, degrease and apply primer, undercoat and two coats enamel paint on galvanised steel piping not exceeding 110mm diameter.	m	5
82	2500kPa Pressure gauge onto 110mm galvanised steel pipe.	No	1
83	300 x 300 x 150mm Class 20/19 concrete anchor block.	No	1
Carried to Summary			R
Bill No. 11 PLUMBING AND DRAINAGE Prepared by Tica Consultants Pty Ltd			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	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			
	<u>Bulkheads</u>			
	Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features			
	Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings			
	<u>Proprietary suspended ceilings</u>			
	All cut-outs in ceilings for light fittings shall be carried out by the contractor and are deemed to be included in the supply and installation of the ceiling. Cut-outs shall be suitably strengthened at edges to prevent sagging, cracking, etc and shall be provided with any additional members necessary to provide an adequate fixing for the light fittings (ceilings have not been deducted and pricing shall take cognisance thereof)			
	Carried Forward		R	
	Bill No. 12 CEILINGS Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>SUSPENDED CEILINGS</u>			
<u>9,5mm "Gyproc Rhinoboard" gypsum plasterboard, or similar approved, with 63mm wide strips of mesh scrim nailed over joints and the whole finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer on a concealed tee suspension system including main and cross tees, necessary hangers, grids, etc.</u>			
1	Ceilings suspended not exceeding 1m below timber/steel trusses or concrete at approximately 5m centres with rigid hangers	m2	107
2	600 x 600mm trap door	No	4.00
<u>Cornices, perimeter trims, etc to suspended ceilings</u>			
3	30 x 30mm Shadowline cornice	m	188
Carried to Summary			R
Bill No. 12 CEILINGS Prepared by Tica Consultants Pty Ltd			

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Item No		Quantity	Rate	Amount
	<u>BILL NO 14</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>PAINT ON NEW WORKS</u>			
	<u>ON FIBRE CEMENT, ETC</u>			
	<u>Prepare and apply one universal undercoat and two coats gloss enamel paint:</u>			
1	Fascias and barge boards	m2	37	
	<u>ON METAL</u>			
	<u>Prepare, touch up factory primer and apply one coat universal undercoat and two full coats high gloss enamel paint:</u>			
2	Pressed steel door frames	m2	150	
3	On window frames	m2	65	
	<u>ON WOOD</u>			
	<u>One undercoat and four coats EPWP golden brown high gloss enamel paint:</u>			
4	General surfaces of doors	m2	178	
	<u>One undercoat and two coats EPWP golden brown high gloss enamel paint:</u>			
5	General surfaces of doors	m2	178	
	Carried Forward		R	
	Bill No. 14 PAINTWORK Prepared by Tica Consultants Pty Ltd			

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Item No		Quantity	Rate	Amount
	<u>BILL NO. 15</u>			
	<u>EXTERNAL WORKS (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Specification of materials and methods to be used - PW 371"			
	<u>FENCING</u>			
1	Remove existing fence and replace with 50 x 50 x 2.5mm Galvanized "Weldmesh," 1.80m high and 700mm flat wrap fixed to 4 strings of barbed wire with wire ties consisting of: 1. Straining posts: 100 x 3mm galvanised stray posts with 300 x 300 x 6mm base plate with holes cast into 450 x 450 x 900mm concrete base of which the top concrete to be 50mm above ground level and supported with anchor posts, max. 30m centres. 2. Intermediate posts: 50 x 8mm round galvanised mild steel intermediate post in concrete, max. 3m centres.	m	37	
	<u>GATES</u>			
2	Heavy duty galvanised pedestrian gate in kids play area.	No	1	
	<u>WALKWAYS.</u>			
	<u>Excavation in earth not exceeding 2m deep:</u>			
3	Under roads to reduce levels	m3	74	
	<u>Filling:</u>			
4	Compaction of ground surface under floors, etc. including ripping and recompacting of insitu material for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	294	
5	Course river sand under floors, etc.	m3	74	
	Carried Forward			
	Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd		R	

Brought Forward			R
	<u>C4 cemented gravel fill supplied by the contractor and compacted to 97% Mod AASHTO density and stabilised with minimum 2,5% lime yeilding an unconfined compressive strength of minium 1 to maximum 2MPa:</u>		
6	Under floors, etc	m3	74
	<u>Gravel filling (G5) supplied by the contractor compacted to 98% Mod AASHTO density:</u>		
7	Under floors, steps, pavings, etc.	m3	74
	<u>Gravel filling (G7) supplied by the contractor compacted to 95% Mod AASHTO density:</u>		
8	Under floors, steps, pavings, etc.	m3	74
	<u>Extra over all excavations for carting away:</u>		
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	294
	<u>Paving of Type-S 25MPa paver blocks to SABS 1200 on 20mm thick river sand bed (sand elsewhere measured) with sand and cement mixture swept into joints and hosed down including preparation of ground or filling (elsewhere measured):</u>		
10	60mm Paving to falls.	m2	294
	<u>Precast Concrete:</u>		
11	Half battered kerb (SABS 927-1989 Figure 3) overall size 150mm wide x 300mm high with one vertical side splayed back for 45mm wide x 230mm high and with one rounded edge including 275mm wide x 100mm deep concrete (15MPa) footing and 75 x 75mm triangular concrete backing, jointing and flush pointing in cement mortar with and including all cutting, circular work, etc.	m	294
<u>TANKS</u>			
Carried Forward			R
Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>"Jojo" Polyproline water tank</u>			
12	10 000 litre Polyproline water tank with 35mm diameter inlet at top and 50mm overflow outlet and 25mm outlet at base of tank including access hatch on top fitted with vernim-proof vent, and including 1.6 x 50mm galvanised hoop iron or other approved holding down material secured around pedestal complete including pedestal, including 2600 mm high galvanised steel tank stand or Brick stand as per engineer's drawings.	No	1
<u>THE FOLLOWING IN APRONS</u>			
13	Excavate in earth to reduce ground levels	m3	31
14	Rip and scarify ground level	m2	104
15	Cart away surplus material from excavations to a dumping site to be located by the contractor	m3	31
16	Compaction of ground surface under aprons, etc including adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	104
17	Ant poisoning surface of ground under aprons	m2	104
18	25MPa Concrete to aprons cast in panels	m3	16
19	Extra over concrete for thickening size 300mm deep	m	4
20	Finishing top surfaces of concrete with a wooden float	m2	104
21	10mm Expansion joint with bitumen impregnated between vertical concrete and brickwork surfaces	m	40
<u>BOREHOLE DEVELOPMENT.</u>			
<u>ESTABLISHMENT</u>			
22	Establishment of all equipment to site, rotary percussion drilling	Item	
23	De establish from site	Item	
24	Set up at each borehole	Item	
Carried Forward			R
Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd			

Brought Forward			R	
25	Site move < 10 km	Item		
26	Site move > 10 km	Item		
<u>DRILLING (ALL FORMATIONS)</u>				
27	215mm Drilling (0-15m)	m	25	
28	165mm Drilling (15-120m)	m	75	
29	65 mm uPVC Solid Casing	m		RATE ONLY
30	65mm uPVC Perforated Casing	m		RATE ONLY
31	177 mm Steel Solid Casing	m	30	
32	177 mm Steel Perforated Casing	m	30	
33	203 mm temporary casing	m	12	
34	uPVC end cap	m		RATE ONLY
35	Data recording & reporting	Item		
36	Silica sand	m3	160	
37	Borehole Development	Item		
38	Borehole Marking	Item		
39	Borehole Protection (Closing Lid)	Item		
40	Concrete Slab	Item		
41	Bentonite seal	Item		
42	Site finishing	Item		
43	Work time rate same for standing time.	Hrs		RATE ONLY
<u>Borehole Yield Testing</u>				
44	Establishment of own Facilities on Site		SUM	
Carried Forward			R	
Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd				

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Brought Forward			R
<u>Site clearance:</u>			
63	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	7
<u>Excavation in earth not exceeding 2m deep:</u>			
64	Holes	m3	6
<u>Extra over trench and hole excavations in earth for excavation in:</u>			
65	Soft rock	m3	3
66	Hard rock	m3	3
<u>Extra over all excavations for carting away:</u>			
67	Extra over all excavations for carting away surplus material from excavations and/or stockpile on site to a dumping site to be located by the Contractor	m3	6
<u>Risk of collapse of excavations:</u>			
68	Sides of trench and hole excavations not exceeding 1,5m deep	m2	12
<u>Keeping excavations free of water:</u>			
69	Keeping excavations free of water		Item
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site (not compacted):</u>			
70	On top of septic tank as soil cover	m3	2
Carried Forward			R
Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>Earth filling obtained from the excavations and /or prescribed stock piles on site including compacted to 93% Mod AASHTO density:</u>			
71	Backfilling behind walls etc	m3	3
<u>Compaction of surfaces:</u>			
72	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	4
<u>25MPa/19mm Reinforced concrete:</u>			
73	Surface beds bottom of septic tank	m3	0.4
74	Slabs	m3	0.4
<u>Finishing top surfaces of concrete smooth with a steel trowel</u>			
75	Surface beds, slabs, etc.	m2	4
<u>Test blocks:</u>			
76	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	12
<u>Rough formwork to:</u>			
77	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	8
<u>Smooth formwork to:</u>			
78	Soffits of slab	m2	4
<u>Sundries:</u>			
79	Box in and form opening size 450 x 650mm through 100mm thick slab for manhole cover and frame	No	2
Carried Forward			R
Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd			

Brought Forward			R
<u>Box in and form opening size 450 x 650mm through 100mm thick slab for manhole cover and frame</u>			
80	Type 193 fabric reinforcement in concrete slabs etc	m2	4
81	Type 395 fabric reinforcement in concrete slabs etc	m2	4
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar:</u>			
82	Half brick walls	m2	1
83	One brick wall	m2	9
<u>Brickwork reinforcement:</u>			
84	75mm Wide reinforcement built in horizontally	m	10
85	150mm Wide reinforcement built in horizontally	m	30
<u>Brickwork sundries:</u>			
86	Leave of form 150 x 150mm high opening through a half brick wall	No	4
<u>Watertight cement plaster on brickwork:</u>			
87	On walls	m2	9
<u>Plumbing and drainage:</u>			
88	Standard cast iron type seal manhole cover and frame opening size 450 x 650mm x 74Kg, bedded in 3:1 cement mortar.	No	2
89	110mm uPVC pipe	m	12
<u>Extra over uPVC pipes for fittings</u>			
90	Extra over pipe for tee junction	No	2
91	Break opening into existing Septic tank to allow for honeysucking	Item	
Carried Forward			R
Bill No. 15 EXTERNALWORKS Prepared by Tica Consultants Pty Ltd			

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Item No	Quantity	Rate	Amount
<u>PROVISIONAL SUMS</u>			
The Tenderers attention is drawn to the fact that all Provisional Sums stated are NET and DO NOT include any cash or other discount for the Contractor.			
<u>Profit and attendance on Provisional Sums</u>			
1. The Contractors attention is drawn specifically to the Articles of Agreement and the Schedule of Conditions of Building Contract Clause 21 (Selected Sub-Contractors) and to the related Clauses in Bill No. 1 Preliminaries.			
2. All Prime Cost Amounts, Provisional Sums, etc., are NET and exclusive of VAT, import duty, etc.			
3. Unless a specific percentage mark-up for Attendance is indicated in the rate column, the amounts for Attendance set against each Provisional Sum shall be deemed to be a lump sum price and shall not be adjusted.			
<u>Note: All contractors appointed under Provisional Sums will be Selected Sub-Contractors</u>			
Should the Employer supply a service for which a Provisional Sum has been provided no adjustment to any amounts set against the item "Add for Profit" will be made.			
To avoid amendment of the Conditions of Contract, no alteration to the amounts stated for Provisional Sums are to be made in the priced Bills of Quantities.			
Carried Forward		R	
Bill No. 16 PROVISIONAL SUMS Prepared by Tica Consultants Pty Ltd			

Brought Forward		R	
<u>Direct Contracts</u>			
The particular attention of Tenderers is drawn to the fact that works listed under Direct Contracts are not included in this Contract and that these Works will be executed under Direct Contracts between Specialists and the Employer or Tenants. The Main Contractor will however be required to co-ordinate and provide general attendance on the Specialists and must price for such under Direct Contractors Attendance herein.			
<u>SKILLS TRAINING</u>			
1	Salary for Interns for a period of 5 months (4 number interns required) - Provisional Sum of R 72 017.22		
		Item	72 017.22
2	Allow for Profit and attendance on the above	Item	
Carried to Summary		R	
Bill No. 16 PROVISIONAL SUMS Prepared by Tica Consultants Pty Ltd			

FINAL SUMMARY					
Bill No		Page No		Amount	
1	PRELIMINARIES	39			
2	ALTERATIONS	47			
3	FOUNDATIONS	51			
4	MASONRY	53			
5	WATERPROOFING	54			
6	ROOF COVERINGS	55			
7	CAPENTRY & JOINERY	57			
8	IRONMONGERY	59			
9	METALWORK	60			
10	PLASTERING	61			
11	PLUMBING AND DRAINAGE	70			
12	CEILINGS	72			
13	GLAZING	73			
14	PAINTWORK	75			
15	EXTERNALWORKS	84			
16	PROVISIONAL SUMS	86			
	Sub Total -1		R		
	Contingencies		R		
	Sub Total - 2		R		
	Add 15% V.A.T.		R		
	Form Of Offer		R		
	Carried to Form of Tender		R		
	Prepared by Tica Consultants Pty Ltd				