

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SECTION NO. 1</u> <u>BILL NO. 1</u> <u>PRELIMINARIES & GENERAL</u> <u>BUILDING AGREEMENT AND PRELIMINARIES</u> The JBCC Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described The JBCC Principal Building Agreement contract data form an integral part of this agreement The JBCC General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the JBCC Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these bills of quantities, amended as hereinafter described The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable" Where standard clauses or alternatives are not entirely applicable to this agreement such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents <u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u> <u>Interpretation (A1-A7)</u> 1 Clause 1.0 - Definitions and interpretation Item 2 Clause 2.0 - Law, regulations and notices Item 3 Clause 3.0 - Offer and acceptance F:..... V:..... T:..... Item 4 Clause 4.0 - Cession and assignment F:..... V:..... T:..... Item 5 Clause 5.0 - Documents F:..... V:..... T:..... CONT 6 Clause 6.0 - Employer's agents F:..... V:..... T:..... CONT 7 Clause 7.0 - Design responsibility F:..... V:..... T:..... Item <u>Insurances and securities (A8-A11)</u> 8 Clause 8.0 - Works risk F:..... V:..... T:..... Item 9 Clause 9.0 - Indemnities F:..... V:..... T:..... Item 10 Clause 10.0 - Insurances F:..... V:..... T:..... Item 11 Clause 11.0 - Securities CONT <u>Execution (A12 - A17)</u>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
12	Clause 12.0 - Obligations of the parties F:..... V:..... T:.....	Item			
13	Clause 13.0 - Setting out F:..... V:..... T:.....	Item			
14	Clause 14.0 - Nominated subcontractors F:..... V:..... T:.....	Item			
15	Clause 15.0 - Selected subcontractors F:..... V:..... T:.....	Item			
16	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall:	CONT			
	1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials	CONT			
	2.Allow the use of personnel welfare facilities, where provided	CONT			
	3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation	CONT			
	4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right, while it remains erected on the site [16.1]	CONT			
	F:..... V:..... T:.....	Item			
17	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor	CONT			
	F:..... V:..... T:.....	Item			
	<u>Completion (A18 - A24)</u>				
18	Clause 18.0 - Interim completion	N/A			
19	Clause 19.0 - Practical completion F:..... V:..... T:.....	Item			
20	Clause 20.0 - Completion in sections	CONT			
21	Clause 21.0 - Defects liability period and final completion	CONT			
22	Clause 22.0 - Latent defects liability period F:..... V:..... T:.....	Item			
23	Clause 23.0 - Revision of the date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2]	CONT			
	F:..... V:..... T:.....	Item			
24	Clause 24.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item			
	<u>Payment (A25 - A27)</u>				
25	Clause 25.0 - Payment	CONT			
	Prices submitted Where prices are submitted by the contractor or subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of this agreement and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing	CONT			
	F:..... V:..... T:.....	Item			

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
26	Clause 26.0 - Adjustment of the contract value and final account	CONT			
	Fluctuations in costs All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [26.9.5]	CONT			
27	Clause 27.0 - Recovery of expense and/or loss F:..... V:..... T:.....	Item			
	<u>Suspension and termination (A28 - A29)</u>				
28	Clause 28.0 - Suspension by the contractor	CONT			
	F:..... V:..... T:.....	Item			
29	Clause 29.0 - Termination	CONT			
	F:..... V:..... T:.....	Item			
	Dispute resolution (A30)	H3			
30	Clause 30.0 - Dispute resolution F:..... V:..... T:.....	Item			
31	Agreement	CONT			
	The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item			
32	Contract data	CONT			
	F:..... V:..... T:.....	Item			
	<u>SECTION B: GENERAL PRELIMINARIES</u>				
	<u>Definitions and interpretation (B1)</u>				
33	Clause 1.1 - Definitions F:..... V:..... T:.....	Item			
34	Clause 1.2 - Interpretation F:..... V:..... T:.....	Item			
	<u>Documents (B2)</u>				
35	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item			
36	Clause 2.2 - Provisional bills of quantities	CONT			
	F:..... V:..... T:.....	Item			
37	Clause 2.3 - Availability of construction information	CONT			
	F:..... V:..... T:.....	Item			
38	Clause 2.4 - Ordering of materials and goods F:..... V:..... T:.....	Item			
	<u>Previous work and adjoining properties (B3)</u>				
39	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item			
40	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item			
41	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item			
	<u>The site (B4)</u>				

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
42	Clause 4.1 - Handover of site in stages F:..... V:..... T:.....	Item			
43	Clause 4.2 - Enclosure of the works	Item			
44	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....	Item			
45	Clause 4.4 - Encroachments F:..... V:..... T:.....	Item			
46	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....	Item			
47	Clause 4.6 - Services - known F:..... V:..... T:.....	Item			
	<u>Management of contract (B5)</u>				
48	Clause 5.1 - Management of the works F:..... V:..... T:.....	Item			
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item			
50	Clause 5.3 - Technical meetings F:..... V:..... T:.....	Item			
	<u>Samples, shop drawings and manufacturer's instructions (B6)</u>				
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item			
52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....	Item			
53	Clause 6.3 - Shop drawings F:..... V:..... T:.....	Item			
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item			
	<u>Deposits and fees (B7)</u>				
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item			
	<u>Temporary services (B8)</u>				
56	Clause 8.1 - Water F:..... V:..... T:.....	Item			
57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item			
58	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item			
59	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item			
	<u>Prime cost amounts (B9)</u>				
60	Clause 9.1 - Responsibility for prime cost amounts	CONT			
	<u>Attendance on subcontractors (B10)</u>				
61	Clause 10.1 - General attendance User note General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement F:..... V:..... T:.....	Item			
62	Clause 10.2 - Special attendance	CONT			
63	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item			
64	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	Item			

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
65	Clause 11.3 - Security of the works F:..... V:..... T:.....	Item			
66	Clause 11.4 - Notice before covering work F:..... V:..... T:.....	Item			
67	Clause 11.5 - Disturbance	CONT			
68	Clause 11.6 - Environmental disturbance	CONT			
69	Clause 11.7 - Works cleaning and clearing F:..... V:..... T:.....	Item			
70	Clause 11.8 - Vermin F:..... V:..... T:.....	Item			
71	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item			
72	Clause 11.10 - Tenant installations F:..... V:..... T:.....	Item			
73	Clause 11.11 - Advertising F:..... V:..... T:.....	Item			
<u>SECTION C: SPECIFIC PRELIMINARIES</u>					
74	Site instructions Contract Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor F:..... V:..... T:.....	Item			
75	Warranties for material and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor F:..... V:..... T:.....	Item			
76	Co-operation of contractor for cost management It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors F:..... V:..... T:.....	Item			
77	Propping of floors below The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor F:..... V:..... T:.....	Item			
78	Testing of windows for watertightness Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent, the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means F:..... V:..... T:.....	Item			
79	Testing of flat roof waterproofing for watertightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:.....	Item			

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>HIV/AIDS AWARENESS</u>				
	It is required of the Contractor to thoroughly study the HIV/AIDS Specification together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained. The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clauses to the contrary, reserve the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment.				
80	AWARENESS CHAMPION Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item			
81	AWARENESS WORKSHOPS Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multimedia techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item			
82	POSTERS, BOOKLETS, VIDEOS, ETC. Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item			
83	ACCESS TO CONDOMS Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item			
84	MONITORING Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification. F:..... V:..... T:.....	Item			
	<u>SOCIO-ECONOMIC DELIVERABLES</u>				
85	It is required that the contractor shall adhere to all Socio-Economic Deliverables. Provision for pricing of all the main contractor's costs as stipulated in the deliverables is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained F:..... V:..... T:.....	Item			
	<u>EMPLOYMENT OF SMME SUB-CONTRACTORS AS A CONDITION OF TENDER</u>				
86	It is required that the contractor shall sub-contract 30% of the contract value (Excluding VAT, Escalation, Contingencies, HT equipment provisions and Socio-Economic provisions) of the contract including labour and material to EME's and QSE's Provision for pricing of all the main contractor's costs is made under this clause and are deemed to be priced hereunder and no additional claims in this regard shall be entertained F:..... V:..... T:..... N/A	Item			

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
87	<u>OCCUPATIONAL HEALTH AND SAFETY ACT</u> The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 1993 (Act no.85 Of 1993) It is required of the contractor to thoroughly study the Health and Safety Specification. The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment. Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained. F:..... V:..... T:.....	Item			
88	<u>ENVIRONMENTAL HEALTH AND SAFETY</u> The contractor shall comply with all the requirements set out in the Environmental Health and Safety Specification. It is required of the contractor to thoroughly study the Environmental Health and Safety Specification. The contractor must take note that compliance with the Environmental Health and Safety is compulsory. Provision for pricing of the Environmental Health and Safety is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained. F:..... V:..... T:.....	Item			
<u>TOTAL</u>					R -
<u>SECTION NO. 2</u> <u>BILL NO. 1</u> <u>EARTHWORKS</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>Nature of ground</u> The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock". The nature of the ground is assumed to be gravel, therefore "earth", but possibly interspersed with "soft rock". The nature of the ground is assumed to be silty clay with loose river boulders varying in size up to approximately 450mm diameter, therefore "earth", but possibly interspersed with "hard rock". Trial holes indicate that the nature of the ground is silty clay to a depth of approximately 500mm with fine to medium loose sandy material below, therefore "earth". The trial holes also indicate that the water table is at a maximum depth of approximately 1000mm. A soils investigation has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured <u>Carting away of excavated material</u> Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site					

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>Filling</u> Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material <u>Testing</u> Prices for filling are to include for all necessary density tests in accordance with SANS 1200D <u>LANDSCAPING</u>				
1	Supply and Install Lemon trees	No	3		
2	Budgetary allowance for landscaping touch ups	Sum	1		R 5 000,00
TOTAL					
	<u>BILL NO. 2</u> <u>CONCRETE, FORMWORK AND REINFORCEMENT</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Cost of tests The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor and to the approval of the architect. (Test cubes are measured separately) Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself. Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design purposes. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" ----- <u>PRECAST CONCRETE FURNITURE</u>				
3	Concrete benches 1800mm long	no	4		
TOTAL					
	<u>BILL NO. 3</u> <u>WATERPROOFING</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SUPPLEMENTARY PREAMBLES</u> Waterproofing Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs				
	<u>WATERPROOFING TO FLAT SCREEDED ROOFS</u> <u>Two layers of 4mm thick Torch-on polyester based sheeting inclusive of additional membrane dressing around fullbores, pipes, etc</u>				
4	Approved waterproofing: On roof and walls	m2	65		
5	Approved waterproofing of Parking Shelter	m2	60		
	<u>PROTECTIVE ROOFING PAINT</u> <u>Two coats bituminous aluminium paint</u>				
6	On waterproofing to roofs	m2	125		
	<u>TOTAL</u>				
	<u>BILL NO. 4</u> <u>CARPENTRY AND JOINERY</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Plate nailed timber roof truss construction The following is applicable in respect of roof trusses: Trusses are at maximum 1,20m centres. Roof covering is 0,58mm Corrugated sheeting on 50 x 75mm purlins. Ceilings are 6,4mm skimmed gypsum plasterboard sheeting on 38 x 38mm brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements shall be obtained from the architect and/or the site before design or fabrication commences Joinery Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes Fixing Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete Decorative laminate finish Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
	<u>DOORS, ETC</u> <u>Solid core flush panel doors with concealed hardwood edge strips with solid chipboard core clad with commercial veneer facing on both sides and hung to steel frames (Steel frames measured elsewhere)</u>				
6	44mm Thick single door size 813 x 2100mm high	No	3		
7	44mm Thick single sliding door size 960 x 2400mm high including a sliding gear and steel angle cap size 1860 x 250mm high.	No	2		
	<u>JOINERY FITTINGS</u>				
8	Floor standing cupboard 9850m girth x 600mm wide x 900mm high complete with back, divisions, drawers, filler pieces etc for supporting counter (counter measured elsewhere)	No	1		
	<u>Budgetary Allowance</u>				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9	Provide a sum of R40 000.00 (Forty Thousand Rand) for Joinery fittings including shower benches, shelving etc	Item	1		R 40 000,00
	<u>TOTAL</u>				
	<u>BILL NO. 5</u> <u>FLOOR COVERINGS, WALL LININGS, ETC</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities. <u>SUPPLEMENTARY PREAMBLES</u> <u>Fixing</u> Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc <u>FLOOR COVERINGS</u> <u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>				
10	Aluminum skirting	m	42		
	<u>TOTAL</u>				
	<u>BILL NO. 6</u> <u>IRONMONGERY</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities. <u>SUPPLEMENTARY PREAMBLES</u> <u>Finishes to ironmongery.</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enameled GE Grey enameled AS Anodized silver AB Anodized bronze AG Anodized gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded <u>NOTE:</u> <u>ALL LOCKS TO BE ON A MASTER AND GRAND MASTER KEY SYSTEM</u> <u>HINGES, BOLTS, ETC</u> <u>Grade 304 Stainless steel</u>				
11	WC indicator bolt	No	2		
12	88 x 100mm High overall bush bearing butt hinge.	No	6		
	<u>LOCKS</u> Grade 304 Stainless steel				
13	Euro profile Mortice sash lock with reversible latch and deadbolt. Fore end to be stainless steel	No	2		
14	Security Deadlock with a Dead case plate in the door frame with Master key functioning.	No	2		
15	813 x 200mm Kick plate	No	5		

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ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>DOOR CLOSERS</u>				
16	Door closer with sliding track arm. Non handed with a maximum 180 degree non hold opening as standard. Power adjustable by spring, latching and damping action. Must be suitable for exterior doors also. Product characteristics ratio - weight to door weight; 20kg, 40g, 60 kg, 80kg, 100kg to 120kg for light to solid doors. For Anti Bandit doors heavy duty Door Closers to be used for weight up to 300kg	No	2		
	<u>SUNDRIES</u>				
	<u>Approved</u>				
17	Stainless steel door stops	No	3		
18	Hat and coat hook	No	3		
	<u>BATHROOM FITTINGS</u>				
19	Satin stainless steel recessed toilet roll holders for single or two rolls, plugged and screwed to the wall with stainless steel screws.	No	3		
20	Satin stainless steel full automatic industrial hand dryer with 2 vandal proof lock screws and key wrench, plugged and screwed to the wall with stainless steel screws. 2500 W motor with automatic power cut off after 90 second and a 5-year warranty.	No	5		
21	Paraplegic Rails dog leg grab rail with 3 supports or equal approved with brushed grade 304 stainless steel finish, overall size 750 x 750mm, plugged and screwed to wall with stainless steel screws.	No	3		
22	Paraplegic Rails flush valve grab rail or equal approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.	No	3		
	<u>Budgetary allowance</u>				
23	Provide a sum of R30 000.00 (Thirty Thousand Rand) for repair to existing windows and window blinds	Item	1		R 30 000,00
<u>TOTAL</u>					
	<u>BILL NO. 7</u>				
	<u>METALWORK</u>				
	<u>PREAMBLES</u>				
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	<u>GALVANISED STEEL WELDED SCREENS</u>				
24	Window overall size 450 x 600mm high	No	1		
25	Window overall size 900 x 600mm high	No	2		
26	Viewing panel, overall size 900 x 600mm high	No	3		
27	Supply and Install Lockers as per Specification	sum	1		
28	Supply and Install 900mm X 2100mm sliding armoured security steel gate	No	3		
<u>TOTAL</u>					
	<u>BILL NO. 8</u>				
	<u>PLASTERING</u>				
	<u>PREAMBLES</u>				
	Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>SCREEDS</u>				
	<u>Screeds on concrete</u>				
29	Screed: 30mm Thick on floors and landings	m2	12		
	<u>TOTAL</u>				
	<u>BILL NO. 9</u> <u>TILING</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding <u>WALL TILING</u> <u>600 x 300mm x 12mm Thick glazed full bodied porcelain tiles fixed to internal wall plaster backing with tile adhesive mixed with bonding liquid in lieu of water with joints continuous in both directions and grouted with tile grout (Wall plaster measured elsewhere).</u> 30 Tiles: On walls m2 32 31 Tiles: On narrow widths m2 1 <u>600 x 300mm x 12mm Thick matt full bodied porcelain tiles fixed to internal wall plaster backing with tile adhesive mixed with bonding liquid in lieu of water with joints continuous in both directions and grouted with tile grout (Wall plaster measured elsewhere).</u> 32 Tiles: On walls in isolated panels, splash backs, etc. m2 6 33 Tiles: On floors and landings m2 55 34 Tiles: Skirting 100mm high m 15 35 Natural anodized aluminum edge strips m 3				
	<u>TOTAL</u>				
	<u>BILL NO. 10</u> <u>PLUMBING AND DRAINAGE</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings unlesshail guards are allowed for in the bills of quantities <u>Stainless steel basins, sinks, wash troughs, urinals, etc</u> Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>Sealing of edges</u> Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone <u>uPVC pipes and fittings</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings <u>uPVC pressure pipes and fittings</u> Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings <u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained <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>Disinfection of water pipework</u> Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere) <u>Petrolatum anti-corrosion tape</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 30% overlaps Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc Prices for wrapping of pipes shall include for all work as described to couplings in the length <u>Laying, backfilling, bedding, etc of pipes</u> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SANS 1200L: Medium-pressure pipelines SANS 1200LD: Sewers SANS 1200LE: Stormwater drainage Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding <u>General</u> Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to uPVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately) Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured) <u>Exposed concrete surfaces</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks" 				
36	100 x 150mm Eaves gutters	m	23		
37	Extra over 100 x 150mm eaves gutter for stopped end	No	3		
38	Extra for outlet for 100mm pipe	No	3		
39	100 x 75mm Rainwater pipes	m	8		
40	Extra over 100 x 75mm pipe for angle	No	3		
41	Extra over 100 x 75mm pipe for bend	No	3		
42	Extra over 100 x 75mm pipe for shoe	No	3		
43	Extra 100 x 75mm pipe for eaves or plinth offset	No	3		
	Budgetary Allowances				
44	Sewer: Provide a sum of R15 000.00 (Fifteen Thousand Rand) for replacing damaged and missing manhole covers and clearing pipe blockages	Item	1	R	15 000,00
45	Stormwater: Provide a sum of R20 000.00 (Twenty Thousand Rand) for replacing damaged and missing manhole covers and clearing pipe and open drain blockages	Item	1	R	20 000,00
46	Shower Curtain Rail	No	4		
<u>TOTAL</u>					
	<u>BILL NO. 11</u> <u>PAINTWORK</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>DESCRIPTIONS</u> Descriptions of paintwork shall be deemed to include for all cutting in <u>PREPARATORY WORK TO EXISTING WORK</u> Previously painted plastered surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Previously painted metal surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal Previously painted wood surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth <u>PAINTWORK, ETC TO NEW WORK ON</u> <u>FLOATED PLASTER SURFACES WITH</u> <u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u> 47 PVA paint: Internal walls m2 251 48 PVA paint: Narrow widths m2 1 <u>Two coats modified acrylic fine textured emulsion paint on work in poor condition on</u> 49 Acrylic emulsion paint: External walls m2 2 50 Acrylic emulsion paint: Narrow widths m2 1 <u>WOOD SURFACES WITH:</u> <u>One coat pink wood primer, one coat universal undercoat and two coats super universal high gloss enamel paint on</u> 51 Doors m2 27				
	<u>TOTAL</u>				
	<u>BILL NO. 12</u> <u>PROVISIONAL SUMS</u> <u>SUPPLEMENTARY PREAMBLES</u> <u>General</u> Work for which budgetary allowances are provided will be measured and valued in accordance with the JBCC Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss of profit on the said allowances. Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists. <u>Profit</u> Where stated, the contractor may allow for profit if required <u>PROVISIONAL AMOUNTS</u> <u>COMMUNITY LIASON OFFICER</u> 221 CLO: Allow the amount of R60,000.00 (Sixty Thousand Rand) Item 1 R 60 000,00 222 Allow for general attendance %IT 5% 223 Allow for profit %IT 5% <u>EPWP TRAINING</u> 224 EPWP Training: Allow the amount of R200,000.00 (Two Hundred Thousand Rand) Item 1 R 200 000,00 225 Allow for general attendance %IT 5% 226 Allow for profit %IT 5% <u>SIGNAGE</u> 227 Signage: Allow the amount of R15 000.00 (Fifteen Thousand Hundred Rand) Item 1 R 15 000,00 228 Allow for profit %IT 5% 229 Allow for general attendance %IT 5%				
	<u>TOTAL</u>				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>PERWAY BUILDING</u> <u>SECTION NO. 2</u> <u>BILL NO. 1</u> <u>MASONRY</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>BRICKWORK</u> <u>Sizes in descriptions</u> Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick <u>Hollow walls</u> Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole <u>Face bricks</u> Bricks shall be ordered timeously to obtain uniformity in size and colour <u>Pointing</u> Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc <u>Granite Counters</u> 1 Polished granite: U-shaped kitchen counter 9850 mm girth x 600mm wide including forming opening for single bowl sink No 1 2 Polished granite: Vanity slab 4000mm long x 600mm wide including forming opening for single bowl sink No 1 3 Polished granite: Vanity slab 3185mm long x 600mm wide including forming opening for single bowl sink No 1				
	<u>TOTAL</u>				
	<u>BILL NO. 2</u> <u>CARPENTRY AND JOINERY</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Plate nailed timber roof truss construction The following is applicable in respect of roof trusses: Trusses are at maximum 1,20m centres. Roof covering is 0,58mm Corrugated sheeting on 50 x 75mm purlins. Ceilings are 6,4mm skimmed gypsum plasterboard sheeting on 38 x 38mm brandering. The dimensions in the descriptions of the trusses are nominal and actual measurements shall be obtained from the architect and/or the site before design or fabrication commences Joinery Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes Fixing Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Decorative laminate finish Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish				
	<u>JOINERY FITTINGS</u>				
4	44mm Thick single sliding door size 960 x 2400mm high including a sliding gear and steel angle cap size 1860 x 250mm high	No	1		
5	Floor standing cupboard 9850mm girth x 600mm wide x 900mm high complete with back, divisions, drawers, filler pieces etc for supporting counter (counter measured elsewhere)	No	1		
6	Provide a sum of R40 000.00 (Forty Thousand Rand) for Joinery fittings including shower benches, shelving etc	Item	1		R 40 000,00
<u>TOTAL</u>					
	<u>BILL NO. 3</u> <u>IRONMONGERY</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>Finishes to ironmongery</u> Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded <u>NOTE:</u> <u>ALL LOCKS TO BE ON A MASTER AND GRAND MASTER KEY SYSTEM</u> <u>BATHROOM FITTINGS</u> Paraplegic dog leg grab rail with 3 supports or equal approved with brushed grade 304 stainless steel finish, overall size 750 x 750mm, plugged and screwed to wall with stainless steel screws. Paraplegic Rails flush valve grab rail or equal approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.				
7		No	3		
8		No	3		
<u>TOTAL</u>					
	<u>BILL NO. 8</u> <u>METALWORK</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
9	Double door size 1850 x 2150mm high with and including a fixed fanlight	No	1		
10	Double door size 1500 x 2600mm high with and including a fixed fanlight	No	1		
	<u>SHOPFRONTS</u>				
11	Shop front size 2765 x 3000mm high with and including double door size 1850 x 2150mm high	No	1		
12	Shop front size 2710 x 3000mm high with and including single door size 900 x 2150mm high	No	1		
13	Shop front size 4490 x 3000mm high with and including single door size 900 x 2150mm high	No	1		
14	Shop front size 6580 x 3000mm high	No	1		
	<u>TOTAL</u>				
	<u>BILL NO. 9</u> <u>PLUMBING AND DRAINAGE</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings unless hailguards are allowed for in the bills of quantities <u>Stainless steel basins, sinks, wash troughs, urinals, etc</u> Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0) Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8) Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8) Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable <u>Waste unions</u> Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings <u>Sealing of edges</u> Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone <u>uPVC pipes and fittings</u> Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings <u>uPVC pressure pipes and fittings</u> Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints Pipes shall be type IV and of the class specified with "Plasson" or "Alprene" compression fittings				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	<u>Reducing fittings</u> Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained <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>Disinfection of water pipework</u> Water pipework is to be disinfected at completion in accordance with SANS 1200L (provision for disinfection elsewhere) <u>Petrolatum anti-corrosion tape</u> Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with 30% overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions including mastic, tape, "Layflat" sheeting, securing of same, etc Prices for wrapping of pipes shall include for all work as described to couplings in the length <u>Laying, backfilling, bedding, etc of pipes</u> Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following: SANS 1200L: Medium-pressure pipelines SANS 1200LD: Sewers SANS 1200LE: Stormwater drainage				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Pipe trenches, etc shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SANS 1200DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SANS 1200LB : Bedding (Pipes) Unless otherwise described bedding of rigid pipes shall be Class B bedding <u>General</u> Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to uPVC pipes, etc are given separately) Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately) Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured) <u>Exposed concrete surfaces</u> Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster <u>Excavations</u> No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling "Soft rock" and "hard rock" shall be as defined in "Earthworks" <u>RAINWATER GOODS</u>				
15	100 x 150mm Eaves gutters	m	23		
16	Extra over 100 x 150mm eaves gutter for stopped end	No	3		
17	Extra for outlet for 100mm pipe	No	3		
18	100 x 75mm Rainwater pipes	m	8		
19	Extra over 100 x 75mm pipe for angle	No	3		
20	Extra over 100 x 75mm pipe for bend	No	3		
21	Extra over 100 x 75mm pipe for shoe	No	3		
22	Extra 100 x 75mm pipe for eaves or plinth offset	No	3		
<u>TOTAL</u>					
	<u>BILL NO. 10</u> <u>PAINTWORK</u> <u>PREAMBLES</u> Tenderers are advised to study the GP ASC (General Specifications of materials and methods to be used for building contracts) before pricing this bill of quantities <u>SUPPLEMENTARY PREAMBLES</u> <u>DESCRIPTIONS</u> Descriptions of paintwork shall be deemed to include for all cutting in <u>PREPARATORY WORK TO EXISTING WORK</u> Previously painted plastered surfacesSurfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				

BUILDING WORKS					
ITEM NO	DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT
	Previously painted metal surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
	Previously painted wood surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	<u>PAINTWORK, ETC TO NEW WORK ON</u>				
	<u>FLOATED PLASTER SURFACES WITH</u>				
	<u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u>				
23	PVA paint: Internal walls	m2	120		
24	PVA paint: Narrow widths	m2	20		
	<u>METAL SURFACES WITH</u>				
	<u>Spot priming defects in pre-primed surfaces with zinc phosphate metal primer, one coat universal undercoat and two coats super universal high gloss enamel paint on steel</u>				
25	High gloss enamel paint: On door frames	m2	5		
	<u>WOOD SURFACES WITH:</u>				
	<u>One coat pink wood primer, one coat universal undercoat and two coats super universal high gloss enamel paint on</u>				
26	High gloss enamel paint: Doors	m2	30		
	<u>TOTAL</u>				

BRAAMFONTEIN DEPOT

RUNNING SHEDS/ PLATFORM EXTENSION
REMAINING SCOPE OF WORKS BOQ

ITEM NO	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	<u>PRELIMINARIES</u>				
1.1	Preliminaries	Sum	1		
Sub-Total					
2	<u>MOVABLE PIT COVERS</u>				
2.1	<u>Supply and install Movable Pit covers</u> Supply and install 30 sets of Fiber glass reinforced plastic Flat Grid, 1065mm wide by 4m, cut to lengths, complete with cross bars and bearing bars. The pit covers must have tags indicating the acceptable weight on the grid.	No	5		
Sub-Total					
3	<u>VOLTAGE DETECTOR</u>				
3.1	Supply and install PHE/G dc Voltage Detector	Item	4		
3.2	Storage Bag VD PHE/G	Item	4		
3.3	SANAS Calibration of DEHN Voltage Detector	m	4		
Sub-Total					
4	<u>VOLTAGE INDICATOR</u>				
4.1	Supply and install PHE/G d.c. Voltage Indicator/ Display	Item	4		
4.2	Supply and install PHE/G d.c. Voltage Indicator/ Display 160mm as per specifications below No of lines 4 Characters per line 5 (HH:MM) Charavter height - mm 160 Color intensity - Red - 1000Mcd HB Maximum viewing Distance +-m 55 Dimensions +- 700mmx230mm Full indoor and outdoor Yes Wall mount brackets included 220VAC YES				
Sub-Total					
5	<u>PLATFORM C</u> <u>Supply and install</u>				
5.1	Beam Assembly Marked A1 CFCL 225*76**20*2.5MM	Each	50		
5.2	Plate Assembly Marked A2 and A6 PLT 5 and (Vastrap 4.5/6)	Each	50		
5.3	Beam Assembly Marked A3 L 50*50*5mm	Each	50		
5.4	Beam Assembly Marked A4 (2 required) IPE 140	Each	10		
5.5	Plate Assembly Marked A5	Each	50		
5.6	Retractable Handrails	m	300		
Sub-Total					
6	<u>PLATFORM D</u> <u>Supply and install</u>				
6.1	Retractable Handrails	m	300		
Sub-Total					
	<u>SUMMARY</u>				
1	Preliminaries				
2	Movable Pit Covers				
3	Voltage Detector				
4	Voltage Indicator				
5	Platform Extension C				
6	Platform Extension D				
Sub-Total					

BRAAMFONTEIN DEPOT
REMAINING SCOPE OF WORKS BOQ

ELECTRICAL WORK		CONTRACT			
ITEM	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	<u>GIBELA BUILDING</u>				
	<u>LV Reticulation</u>				
1	Containerized 100kVA complete with Day tank and Automatic Transfer Switch	Lot	1		
2	Full Tank of Diesel upon Commissioning	Lot	1		
3	500VA single phase UPS	Lot	16		
4	To provide the earthing and testing of the electrical installation in accordance with the General Specifi	Lot	1		
	<u>PERWAY BUILDING</u>				
	<u>LV Reticulation</u>				
1	Test All Works as has been left by Previous Contractor and produce report for the Engineer	Lot	1		
2	Main Distribution Board Refurb - PC	Lot	1		
3	Power cables in sleeves: 50mm ² x 4 core ecc cable	m	50		
4	Containerized 200kVA complete with Day tank and Automatic Transfer Switch and Plinth	Lot	1		
5	Full Tank of Diesel upon Commissioning	Lot	1		
6	200mm wide P8000 trunking complete with hangers, covers and accessories installed in ceiling void	m	100		
7	500VA single phase UPS	Lot	9		
8	To provide the earthing and testing of the electrical installation in accordance with the General Specifi	Lot	1		
Total Ex VAT					

BRAAMFONTEIN DEPOT**REMAINING SCOPE OF WORKS BOQ**

FIRE DETECTION - PRASA BRAAMFONTEIN DEPOT ELECTRONICS PROVISIONAL BOQ					
Item	Description	Unit	QTY	Cost	Total Cost
	<u>Fire Detection</u>				
1	Addressable Smoke Detectors	Lot	18		
2	Addressable Smoke Detectors + Void LED	Lot	5		
3	Addressable Heat Detectors	Lot	2		
4	Addressable Manual Call Point (Breakglass)	Lot	6		
5	Addressable Relay Unit	Lot	3		
6	Addressable Loop Beacon	Lot	7		
7	Addressable Loop Sounder	m	2		
8	Power Supply 24V	Lot	2		
9	Cables PH30	m	500		
10	Cables PH120	m	100		
11	4 Loop Fire Panel	Lot	1		
12	Installation & Commissioning	Lot	1		
	<u>Equipment</u>				
1	Digital Voice Evac/PA System compliant with Prasa Railcom System	No	1		
3	PH30 Voice Evacuation Cabling including IP66 Rated Junction Boxes	m	120		
4	Integration of Detection System with other Services/System - Engineer AutoFill	No	1		
5	Alarm System complete with 6 x panic buttons - Ticket Office - Engineer AutoFill	Lot	0		
6	Ticket Office Counter Inductive Loop complete with goose neck counter	Lot	0		
7	Intrusion Detection System with Infrared Motion sensors in Ticket	Lot	1		
	<u>Fire Detection</u>				
1	Addressable Smoke Detectors	Lot	11		
2	Addressable Smoke Detectors + Void LED	Lot	6		
3	Addressable Heat Detectors	Lot	1		
4	Addressable Manual Call Point (Breakglass)	Lot	3		
5	Addressable Relay Unit	Lot	1		
6	Addressable Loop Beacon	Lot	4		
7	Addressable Loop Sounder	m	2		
8	Power Supply 24V	Lot	2		
9	Fire Cables - PH30/30 minutes rated	m	500		
10	Fire Cables - PH120/120 minutes rated	m	100		
11	4 Loop Fire Panel	Lot	1		
12	Installation & Commissioning	Lot	1		
	<u>Equipment</u>				
1	Digital Voice Evac/PA System compliant with Prasa Railcom System complete with 10 x 30W Internal Speakers on ceilings. Include 43U Mounting Rack	No	1		
2	PH30 Voice Evacuation Cabling including IP66 Rated Junction Boxes	m	120		
3	Integration of Detection System with other Services/System - Engineer AutoFill	No	1		
4	Intrusion Detection System with Infrared Motion sensors in Ticket Offices complete with 8 zone control panel, Led Keypad with Battery Backup, 6 x panic Buttons and Internal Siren	Lot	1		
Total Ex VAT					

BRAAMFONTEIN DEPOT
REMAINING SCOPE OF WORKS BOQ

MECHANICAL WORK					
ITEM	DESCRIPTION	UNIT	QTY	Rate	AMOUNT
	GIBELA BUILDING				
	SECTION NO. 5				
	FIRE INSTALLATION				
1,1	Allow for Client instruction in the use and maintenance of all fire services equipment as required by the Manuf	Item	1		
1,2	Allow for the Production and submittal of Operation & Maintenance Manuals and record information, worksho	Item	1		
2,0	Fire Plan: Design, manufacture, works testing, supply and delivery to site, moving into position, erection,				
2,1	Supply : 65mm hydrant valve with handwheel opening mechanism & fittings.	No.	1		
	Install: 65mm hydrant valve with handwheel opening mechanism & fittings.	No.	1		
2,20	Supply :Fire hose reel	No.	1		
	Install: Fire hose reel	No.	1		
2,30	25mm: Gms pipe treated & pain 2 ctsfiremen red signal paint	m	40		
3,10	Supply :4,5kg DCP fire extinguishe	No.	2		
	Install: 4,5kg DCP fire extinguishe	No.	2		
3,20	Supply : 5kg CO2 fire extinguishers	No.	2		
	Install: 5kg CO2 fire extinguishers	No.	2		
4	Fire blankets nominal size 1200 x 1200 in cover with quick release mechanism. Minimum weight 430 gr/m², ign	No.	2		
5,1	E1/E2 (190mm high)	No.	4		
5,2	E3 (190mm high)	No.	4		
5,3	E6 (190mm high)	No.	3		
5,4	F14 (190mm high)	No.	1		
5,5	F17/20 (190mm high)	No.	1		
5,6	F13 (190mm high)	No.	2		
5,7	F30 (190mm high)	No.	1		
	PERWAY BUILDING				
	BILL NO. 1				
	HVAC INSTALLATION				
1,1	FAN EF-01 - 60 l/s wall mounted	no	1		
1,2	FAN EF-02 - 174 l/s wall mounted	no	1		
1,3	FAN EF-03 - 201 l/s wall mounted	no	3		
1,4	FAN EF-04 - 277 l/s wall mounted	no	3		
2,1	Supply & intall: Midwall, cooling load 3.0kW, heating load 3.2kW	no	1		
2,2	Supply & intall: Cassette Units, cooling load 7.0kW heating load 8.0kW	no	1		
2,3	Supply & intall: Cassette Units, cooling load 12.0kW heating load 12.0kW	no	3		
2,4	Supply & intall: Dia 32mm uPVC drainage piping including bends	m	40		
2,5	Supply & intall: 200mm wide heavy duty welded wire mesh including supports	m	40		
2,6	Supply & intall: Insulated refrigerant piping and approved refrigerant gas as per manufacture's specification	Item	1		
3,1	Testing and commissioning of the above system to the complete satisfaction of the Mechanical engineer and	item	1		
3,2	Preparation and supply of handover documents	item	1		
3,3	Production of shop drawings and schematics	item	1		
	BILL NO. 2				
	FIRE INSTALLATION				
1,1	Allow for Client instruction in the use and maintenance of all fire services equipment as required by the	Item	1		
1,2	Allow for the Production and submittal of Operation & Maintenance Manuals and record information,	Item	1		
2,1	Standard Wall Mounted Type Fire Hose Reel to comply with SANS 543 Fire hose reels shall be fitted with a				
	Supply	No.	2		
	Install	No.	2		
2,2	25mm : Galvanised mild steel pipe treated with galvafroid paint and two coats of firemen red signal paint A11.	m	90		
3,1	Supply : 4,5kg DCP fire extinguishers	No.	4		
	Install : 4,5kg DCP fire extinguishers	No.	4		
3,2	Supply : 5kg CO2 fire extinguishers	No.	2		
	Install : 5kg CO2 fire extinguishers	No.	2		
4,0	Fire blankets nominal size 1200 x 1200 in cover with quick release mechanism. Minimum weight 430 gr/m²,	No.	1		
5,1	Supply and install photoluminescent signs: E1/E2 (190mm high)	No.	4		
5,2	Supply and install photoluminescent signs: E3 (190mm high)	No.	2		
5,3	Supply and install photoluminescent signs: E6 (190mm high)	No.	1		
5,4	Supply and install photoluminescent signs: E16/E17 (190mm high)	No.	2		
5,5	Supply and install photoluminescent signs: F4 (190mm high)	No.	2		
5,6	Supply and install photoluminescent signs: F5/6 (190mm high)	No.	2		
	HydroBoil instant boiling water unit with White Epoxy Powder Coated outer case, and a two-way tap, complete with twin-chamber technology. Unit to be installed in accordance with manufacturer's installation instruction manual and (optional) equipped with Water Filtration Kit.	Set	1		
6	Supply and install an underbasin electric water geyser , complete with copper piping, pressure control valves, draincock, vaccum breakers, thermostat, expansion relief valve, strainers, lever ball valves, hot water pipe insulation, mixing valve and all necessary accesories and ftings, as indicated on the Tender drawings.	Set	1		
	SUBTOTAL				

BRAAMFONTEIN DEPOT**REMAINING SCOPE OF WORKS BOQ**

ACCESS CONTROL				
Item	Description	QTY	Cost	Total Cost
1	Tansport - Supply separate breakdown	1		
2	Labour Monday -Friday- Rate Only	40		
3	Configuration & initail Setup Cost	24		
	CABLING			
1	Connector - RJ 45 for CAT 5	50		
2	Server Racks Cabinets 42U - Lockable	1		
3	Connector Boot - RJ45 Grey	50		
4	Cable - CAT 6E U/UTP BC 500m	2		
5	Cable CAT6E UTP 0.57mm Solid Copper	1		
	EQUIPMENT			
1	Biometric Outdoor Fingerprint & RFID Outdoor Stand alone Rea	8		
2	RFID card	100		
3	RFID & Fingerprint Indoor Slave Reader	8		
4	Power Supply with Battery Leads, 12V 7Ah battery not included	8		
5	12V 7.2AH Sealed Lead Acid Battery	8		
6	Maglock 280 kg With LED	8		
7	Bracket for 280 kg Maglock	8		
8	Access Control Silver Door Closer - medium duty	8		
9	Emergency Green Call Point - Resettable	8		
10	USB Proximity RFID Enrollement Reader	8		
11	Biosecurity software for Access control	1		
12	Inbio 460 - 4 Door Pro Access Control Panel	6		
13	CAT6 Cable, 305m Pull Box, CCA, White (Indoor Use)	6		
14	CAT6 RJ45 Connectors, Stranded/Solid Core, 50 Pack	1		
15	RJ45 Connector Boots, Grey, 50 Pack	1		
16	Lite Bullet 1080p IR 30 2.8mm Intrusion, tripwire	24		
17	NVR 32 Ch 16 PoE 4K AI+SMD+ANPR. Rack mounted complete	1		
18	55 Inch HD Monitor Wall Mounted	1		
19	16 Port 10/100 Managed PoE + 2GB TP	2		
20	Surveillance Hard Drive 6TB.	2		
21	Rack Mountable 10KVA UPS complete with 1 hour full load cap	1		
	Total Ex VAT			

REFURBISHMENTS AND UPGRADES TO BRAAMFONTEIN STATION**BUILDING WORKS - REMAINING SCOPE OF WORKS BOQ****FINAL SUMMARY**

No	Component / Trade	Bill Amounts
	<u>Section No.1</u>	
1	Preliminaries	
	TOTAL AMOUNTS EXCLUDING VAT	
	<u>GIBELA BUILDING</u>	
	<u>Section No. 2</u>	
1	Earthworks	
2	Concrete, Formwork and Reinforcement	
3	Waterproofing	
4	Carpentry and Joinery	
5	Floor Coverings and Wall Linings	
6	Ironmongery	
7	Metalwork	
8	Plastering	
9	Tiling	
10	Plumbing and Drainage	
11	Paintwork	
12	Provisional Sums	
1	Electrical Work	
2	Mechanical Work	
3	Electronics	
4	Access Control	
	TOTAL AMOUNTS EXCLUDING VAT	
	<u>PERWAY BUILDING</u>	
	<u>Section No. 3</u>	
1	Masonry	
2	Carpentry and Joinery	
3	Ironmongery	
4	Metalwork	
5	Plumbing and Drainage	
6	Paintwork	
1	Electrical Work	
2	Mechanical Work	
3	Electronics	
	TOTAL AMOUNTS EXCLUDING VAT	

	<u>RUNNING SHEDS/ PLATFORM EXTENSIONS</u>	
	<u>Section No. 4</u>	
1	Preliminaries	
2	Movable Pit Covers	
3	Voltage Detector	
4	Voltage Indicator	
5	Platform Extension C	
6	Platform Extension D	
	TOTAL AMOUNTS EXCLUDING VAT	
	SUBTOTAL	
	Contingencies @ 10%	
	SUBTOTAL	
	Add VAT @15%	
	TOTAL	