



UNPRICED BILLS OF PROVISIONAL QUANTITIES

FOR

**REFURBISHMENT OF TOILET, BATHROOMS AND KITCHENS
AT THE SABC POLOKWANE OFFICES**

MARCH 2022

SECTION NO. 1
PRELIMINARIES

SECTION NO. 1**PRELIMINARIES****BUILDING AGREEMENT AND PRELIMINARIES****PRELIMINARIES**

The JBCC Minor Works Agreement (August 2007 Edition 4.0) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described

Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.

Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or supplements as will apply, are given under each relevant clause heading.

Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable").

The Tenderer shall allow opposite each of the following items whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out therein.

Only priced items will be considered in respect of any adjustment of the following Sections.

Any items left unpriced will be understood to be covered in the rates given for other items throughout these Bills of Quantities and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.

Where modifications or amendments as described are made, such modification and/or amendments shall supersede any conflicting provision in the relevant clauses of the Minor Works Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.

No claim will be allowed in respect of errors or omissions in pricing due to the brevity of descriptions of items in these Bills of Quantities which are fully described when read in conjunction with the relevant clauses of the said Minor Works Agreement.

Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.

No contract price adjustment (CPAP) will be applicable to this contract.

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Preliminaries

PREAMBLES FOR TRADES

The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained

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

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

STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses of the aforementioned JBCC Minor Works Agreement

Section B : Any special clauses to meet the particular circumstances of the project

PRICING OF PRELIMINARIES

Should the contractor select Option A in the contract data for the adjustment of preliminaries, the amounts entered against the relevant items in these preliminaries are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

SECTION A: MINOR WORKS AGREEMENT**Definitions**

- 1 Clause 1.0 - Definitions and interpretation

Item

Preparation

- 2 Clause 2.0 - Security and guarantees

Sub clause 2.5 is to be deleted in it's entirety

Sub clause 2.6 the words "...on receipt of the JBCC Payment Guarantee" is to be deleted in it's entirety

Item

- 3 Clause 3.0 - Risk and insurance

Sub clause 3.1 "The employer indemnifies the contractor" shall be deleted and replaced by the insertion of the following, "The contractor indemnifies the employer"

Sub clause 3.2, 3.4 "The employer", shall be deleted and replaced by the insertion of the following terms, "The contractor"

Sub clause 3.4.2, shall be deleted in it's entirety and replaced by the following terms "Contract works insurance shall be in the name of the contractor for the amount stated in the schedule."

Item

- 4 Clause 4.0 - Documents, Design and Assignment

Item

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		Amount
<u>Execution</u>		
5	Clause 5.0 - Employer	
	Sub clause 5.1.1, 5.1.4, and 5.1.5 are to be deleted in its' entirety	Item
6	Clause 6.0 - Employer's agents	Item
7	Clause 7.0 - Contractor	Item
8	Clause 8.0 - Employer's Direct Contractors	Item
<u>Completion</u>		
9	Clause 9.0 - Practical Completion	Item
10	Clause 10.0 - Final Completion and Latent Defects Liability	Item
11	Clause 11.0 - Revision of date for Practical Completion	Item
12	Clause 12.0 - Penalty for noncompletion	Item
<u>Payment</u>		
13	Clause 13.0 - Valuation and Payment to Contractor	Item
14	Clause 14.0 - Adjustment to the Contract Value	Item
<u>Termination</u>		
15	Clause 15.0 - Termination by Employer	Item
16	Clause 16.0 - Termination or Suspension by Contractor	
	Sub clause 16.1.1, 16.1.2 and 16.1.5 are to be deleted in its' entirety	Item
17	Clause 17.0 - Termination - Impossibility of Performance	Item
<u>Disputes</u>		
18	Clause 18.0 - Settlement of Disputes	Item
<u>SECTION B: SPECIFIC PRELIMINARIES</u>		
<u>Specific Preliminaries</u>		
The following clauses are additional to, augment the clauses contained above to these Preliminaries.		
19	Contractor to be Responsible	
The Contractor acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of work of this Contract. The Contractor shall therefore be solely responsible for all aspects of the construction of the Works including but not limited to management, resourcing, programming, co-ordination, etc., all as required for the type of project described within the time limits and quality standard specified.		
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	<p>The Employer, Agent and the other Consultants are in no way responsible for any act or omission on the part of the Contractor which may result in any patent or latent defects in materials or workmanship, breach or neglect of any Local Authority Regulations.</p> <p>The Contractor remains at all times responsible for any such neglect, deviation or wrong act, whether the same be discovered before or after the Final Certificate, or any other Certificate is approved.</p>	
20	<p>Warranties</p> <p>Warranties shall be sought by the Principal Agent from all nominated or selected firms carrying out work or supplying goods.</p> <p>All warranties and guarantees issued by Subcontractors shall be underwritten by the Contractor.</p> <p>The Contractor shall obtain and hand over to the Principal Agent at practical completion, all relevant guarantees and maintenance instructions provided by manufacturers, suppliers or subcontractors, suitably filed together.</p>	Item
21	<p>Indemnities</p> <p>Indemnities shall be sought by the Agent from all Contractors undertaking any design responsibility.</p>	Item
22	<p>Work or Installation by Others</p> <p>The Employer and his Tenants shall have the right to employ other Contractors (hereinafter referred to as "Direct Contractors") to execute any special or other works or installation whether contained in this Contract or not, concurrently with the work being executed under this Contract.</p> <p>The Contractor shall not be entitled to any percentage, profit or discount on the value of any work executed by "Direct Contractors" other than attendance on specific items as specified elsewhere in these Schedule of Quantities but shall nevertheless allow these Direct Contractors and the Employer's Tenants and employees to have access to the Works, allocate reasonable space in the building for the storage of their materials, tools and equipment, and relate the work of such Direct Contractors to the Contract Programme as necessary, all to the satisfaction of the Principal Agent. The Contractor shall also allow the Direct Contractors, etc. to use, free of charge, the latrine accommodation and water and power supply on the Site, and shall not in any way hinder or prevent the execution of their work.</p>	Item
23	<p>Pricing of Schedule of Quantities</p> <p>Tenderers are to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, hoarding, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the Standard System of Measurement) patterns, models and templates, plant, temporary works, returning of packings, duties and taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the Contract.</p>	
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	<p>Items left unpriced will be deemed to be covered in prices against other items throughout these Schedule of Quantities and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.</p> <p>Prices for all plant, temporary works, services and other items provided shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.</p>		
24	<p>Non-Cession of Contract</p> <p>The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this Contract and no such cession or assignment shall be recognised by the Employer.</p>	Item	
25	<p>Use of Site</p> <p>The Contractor shall not use the site for any purpose other than carrying out the Works.</p>	Item	
26	<p>Interpretation of Drawings, Specifications and Schedule of Quantities</p> <p>Should any part or parts of the Drawings, Specifications or Schedule of Quantities not be clearly intelligible to the Contractor, or the material or articles to be used in the execution of the Works be considered insufficiently described or the manner in which the work is to be carried out not be clear, the Contractor must obtain from the Principal Agent the necessary information to clarify such Drawings, Specification, Quantities or instructions which request shall be in writing.</p> <p>The Contractor shall be held solely responsible for and shall, at his own expense, rectify any errors arising out of incorrect interpretation of the Drawings, Specifications, Schedule of Quantities or instructions.</p>	Item	
27	<p>Ownership and Care of Drawings and Documents</p> <p>All drawings and documents are to be considered the sole property of the Consultants and are to be returned to them on completion of the Works. The drawings, etc., are to be used by the Contractor for the purpose of this Contract only. All drawings must be properly cared for, protected and kept in good condition.</p>	Item	
28	<p>Checking of Drawings and Specifications</p> <p>Upon receipt of detail drawings for any work, the Contractor shall, before putting that work in hand, ascertain that the dimensions given on the detail drawings correspond with the dimensions of any work already built and which governs the sizes of any work for which details are now issued.</p> <p>In the event of the detail drawings not agreeing with the works already built, the discrepancy shall be brought to the Agent's attention timeously and the detail drawings shall be returned at once for alterations.</p>	Item	
29	<p>Scale of Dimensions</p>		
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	All dimensions will be figured on the drawings or may be calculated from figured dimensions and are always to be followed. No dimensions shall be obtained by scaling.	Item	
30	Site Instructions Instructions issued on Site shall be recorded in a Site instruction book which will be issued by the Architect and maintained on Site. Only site instructions issued in such book shall be recognised. Site instructions to the Contractor and various Sub-contractors may be issued only by the Agent and shall be issued via the Contractor.	Item	
31	Temporary Structures, Scaffolding and Services The Contractor shall provide all necessary temporary structures, scaffolding and services required for his own and Sub- contractor's use during the construction period where required. The Contractor is to allow for all works associated with this procedure and construction process and pay all costs in connection therewith, including removal and making good any damage resulting therefrom.	Item	
32	Encroachment by Contractor During the course of the building operations the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties or servitudes as a result of his default and the cost of any remedial measures arising therefrom as required by the Agent shall be borne by the Contractor.	Item	
33	Security at Completion The Contractor shall account for and hand over to the Employer all keys, properly labelled with itemised schedule to be signed by the Employer as receipt	Item	
34	Condemned Work The Contractor shall remove from the site all materials condemned by the Architect, whether incorporated in the Works or not. He shall replace and re-execute such work in accordance with the Contract and without expense to the Employer. The Contractor shall also bear the expense (including Professional Fees) of making good all other work destroyed or damaged by such removal or replacement.	Item	
35	Labour Record The Contractor shall provide to the Agent, at intervals to be agreed to by the Architect, a written daily record, in schedule form, showing the number and descriptions of tradesmen and labourers currently employed on the Works, including those employed on subcontracts.	Item	
36	Plant Record		
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		Amount	
	The Contractor shall provide to the Agent, at intervals to be agreed to by the Architect, a written daily record, in schedule form, showing the number, type and capacity of all plant, excluding hand tools, currently employed on the Works.	Item	
37	Costs of Claims All costs incurred by the Contractor in the preparation of claims to the satisfaction of the Agent and/or Quantity Surveyor shall be borne by the Contractor.	Item	
38	Declaration of Insurance A declaration of insurance shall be sought by the Agent from the party responsible for effecting the applicable insurance cover.	Item	
39	Satisfaction of Contractor as to Scope of Insurances The Contractor warrants that he shall give all notices and shall observe all the terms and conditions and requirements of all insurances applicable to this Contract.	Item	
40	Adjustment of Attendance Amounts The amounts allowed by the Contractor against the respective attendance items will vary only in the following circumstances : 1. Where the actual subcontract amount varies in excess of 15% of the Provisional Sum allowed, then the attendance amount will be varied pro-rata to the subcontract final amount. 2. Where the scope of the subcontract works increases or decreases, then the attendance amount allowed will be increased or decreased pro-rata to the cost of the variation in the scope of the subcontract works only. 3. No adjustment in the attendance amount will be made where the specification increases/decreases the subcontract amount.	Item	
41	Final Account The Contractor shall be obliged to timeously do everything necessary and to provide all information required by the Quantity Surveyor to compile the final account. The Contractor shall be obliged, within 90 days after receipt of the final account, to signify in writing his acceptance of same or to advance any claims he may have in respect thereof for the consideration of the Quantity Surveyor. The Contractor agrees that should he fail to dispute the final account prepared by the Quantity Surveyor within 90 days after receipt of same, the Contractor will be deemed to have accepted the final account in its entirety. Dispute shall be deemed to mean the submission by the Contractor in writing to the Quantity Surveyor of reasons valid, in the opinion of the Quantity Surveyor, for not accepting the final account.	Item	
42	Schedule of Provisional Quantities		
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		Amount
<p>Where reference is made in the documentation to bills of quantities it shall be taken as referring to these schedules of provisional quantities</p> <p>All quantities are provisional, are an indication of the extent and type of work to be executed and have been inserted in order to obtain competitive tenders</p> <p>All work carried out under this contract shall be measured and valued at schedule rates and in accordance with the Conditions of Contract</p>		
	Item	
43	<p>Ordering of Materials</p> <p>The contractor shall place orders timeously for materials or special articles, items that are required. Should these bills of quantities be used for ordering materials, this shall be entirely at the contractor's risk and the Employer will not be held responsible due to any claim arising out of loss of income and or profit due to ordering of the abovementioned items</p>	Item
44	<p>Safety</p> <p>All the applicable requirements of the Occupational Health and Safety Act (1993) and Regulations, and any ammendments thereto, shall be met.</p>	Item
45	<p>Provision of Water for the Works</p> <p>The contractor shall provide all water necessary for the execution of the works, including all temporary plumbing, removing same and making good on completion of the works</p> <p>The contractor may use water free of charge from the existing supply if available. He shall obtain permission from the Principal Agent before any connection to or extension of the existing supply is made, which shall be executed, removed and made good on completion of the works at the contractor's expense</p> <p>The contractor shall allow for the risk of failure of the water supply or of an insufficient supply, in which case he shall make his own arrangements and all costs that may arise shall be for his account</p>	Item
46	<p>Provision of Electricity and Lighting</p> <p>The contractor shall provide all electricity and artificial lighting necessary for the execution of the works, including all temporary installation work, removing same and making good on completion of the works</p> <p>The contractor may use the existing power supply free of charge if available. He shall obtain permission from the Principal Agent before any connection to or extension of the existing supply is made, which shall be executed, removed and made good on completion of the works at the contractor's expense</p> <p>The contractor shall allow for the risk of failure of the electrical supply or of an insufficient supply, in which case he shall make his own arrangements and all costs that may arise shall be for his account</p>	Item
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		Amount
47	<p>Provision of Telephone</p> <p>The contractor shall provide, maintain and remove on completion of the works a Telkom telephone or cellphone on site for use by all persons engaged upon the works, pay all costs related thereto and make his own arrangements regarding recovering the cost of outgoing calls from those making such calls</p>	Item
48	<p>Provision of Toilets</p> <p>The contractor shall provide, maintain in a thoroughly clean and tidy condition and remove on completion of the works proper toilets for the use of the workmen</p> <p>The contractor shall be permitted the use of the existing toilet facilities if available only upon written approval by the Agent. The contractor shall maintain such facilities in a thoroughly clean condition and make good any damage at his own expense</p>	Item
49	<p>Management of the Works</p> <p>The contractor is responsible for the management of the works including keeping labour and plant records of all tradesmen, labourers and plant used for the works. Management also to include for the scheduling of technical and progress meetings to be held at agreed time intervals.</p>	Item
50	<p>Programming of the Works</p> <p>The contractor shall within two weeks of the site being handed to him, submit to the Agent a detailed programme and supporting documentation for the execution of the contract including the work of all nominated and/ or selected sub-contractors and other contractors engaged by the Employer.</p>	Item
51	<p>Contractors Liability in Respect of Defects for Services</p> <p>The contractor's liability in respect of defects shall be 12 (Twelve) months for the following installations: Electrical</p>	Item
52	<p>Site Security</p> <p>The contractor shall provide all watching and lighting necessary for the general site security for the duration of the contract</p>	Item
53	<p>Viewing of the Site</p> <p>The tenderer shall view the site and make himself thoroughly acquainted with the conditions under which the works are to be executed, the means of access to the site, the nature of the site, the condition of the roads and traffic restrictions, existing tenants and generally with all matters which may influence the pricing of the contract</p> <p>The contractor will not be allowed to extend his operations beyond the area indicated on the drawings</p>	Item
54	<p>Notice Board</p>	
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		Amount	
	The contractor shall provide, erect, maintain and remove on completion of the contract, a notice board 2,17m wide and 1,715m high with 19mm thick surround projecting 13mm over face. The board is to have a flush even surface with white lettering in "sans serif" on a navy blue background detailing the project team. A sketch drawing of the proposed board, the position and locality where the board is to be erected, shall be submitted to the Architect for his approval prior to the manufacture thereof	Item	
55	Adjustment of Preliminaries		
	The adjustment of preliminaries shall be based on Alternative A per the JBCC Principal Building Agreement Series 2000	Item	
56	Contract Price Adjustment Provisions (CPAP)		
	The contract is fixed and is not subject to Contract Price Adjustment Provisions. All fluctuations in costs shall be for the account of the Contractor	Item	N/A
57	Unknown Services		
	Should the contractor encounter any existing services such as underground cables, pipes or sewers during the execution of the works, he shall notify the Agent immediately and suspend all affected work in the immediate vicinity until instruction to proceed has been given by the Agent	Item	
58	Cleaning		
	The contractor shall regularly remove or dispose of any rubbish, rubble and superfluous material that may accumulate on the site	Item	
59	Regulations, Permits, Environmental Policy		
	The whole of the Work shall be carried out in accordance with the Regulations and requirements of the Client, Municipal and Local Authorities and all other relevant Authorities		
	The contractor has to allow for the cost in obtaining the necessary permits in accordance with the regulations and requirements of the Client		
	The whole of the Work shall be carried out in accordance with the Client's Environmental Policy where applicable.		
		Item	
60	Occupational Health and Safety Act - Health and Safety Plan		
	The Contractor shall take all necessary steps to ensure that all the workmen, consultants and visitors employed on the Works comply with regulations regarding the Occupational Health and Safety Act for the General requirements and special requirements as annexed (Where applicable) to these bills of quantities.	Item	
61	Existing Premises Occupied - Working Hours		
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	<p>The contractor shall take note of the details listed in Contract data EC and shall make allowance for all costs related to these items. The Client will not be held liable for any omission on the part of the Contractor to price sufficiently for them.</p>			
		Item		
62	Client's Construction / House Rules			
	<p>The contractor must take note of the client's house rules, working hours and various regulations that could restrict the production and progress on site. The Contractor must make allowance for all the costs loss of profit that are related to these aspects. The Client will not be held liable for any omission on the part of the contractor to price sufficiently for them.</p>	Item		
63	Other Items Not Mentioned in Above Clauses the Contractor Wishes to Add to List Below and Price			
		Item		
	<u>SUMMARY OF CATEGORIES</u>			
	Category :			
	Fixed R _____			
	Value R _____			
	Time R _____			
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SECTION NO. 1

PRELIMINARIES

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SECTION SUMMARY

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 1</u>				
<u>ALTERATIONS</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
GF	Ground Floor			
1ST	First Floor			
2ND	Second Floor			
3RD	Third Floor			
4TH	Fourth Floor			
5TH	Fifth Floor			
IT	Item			
The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill				
<u>TEMPORARY BARRIERS, SCREENS, ETC</u>				
<u>Internal temporary barriers, screens, etc. including removal</u>				
Temporary hoarding formed of drywall partitioning 2.60m high painted white both sides, supplied, erected, maintained and removed upon completion of building works, including making good finishes where hoarding removed				
GF 19		26		N/A
1ST 1				
2ND 1				
3RD 1				
4TH 1				
5TH 3				
Extra over for forming opening for single-leaf door, including aluminium frame, two-lever mortice lock, primer and two coats paint				
GF 4		9		N/A
1ST 1				
2ND 1				
3RD 1				
4TH 1				
5TH 1				
<u>External temporary barriers, screens, etc. including removal</u>				
Temporary hoarding formed of 1.80m high diamond mesh fencing with netting, fixed to suitable framework, supplied, erected, maintained and removed upon completion of building works, including making good finishes where hoarding removed				
IT 97		97		
Extra over for forming opening for single-leaf gate, including steel frame, padlock, chain, primer and two coats paint.				
IT 2		2		
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Alterations				

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		Unit	Quantity	Rate	Amount
<u>REMOVAL OF EXISTING WORK</u>					
<u>Breaking down and removing brickwork etc and making good</u>					
5	Half brick walls 5TH 4	m ²	4		
6	One brick walls 1ST 1	m ²	1		
<u>Taking out doors, windows, etc., including thresholds, sills, etc.</u>					
7	Timber single door not exceeding 2,5m ² (frames to remain) GF 12 1ST 2 2ND 2 3RD 3 4TH 2 5TH 2	No	23		
8	Existing 813 x 2032mm sliding door including rails 1ST 1 2ND 1 4TH 1	No	3		
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc.</u>					
9	Flush plastered gypsum plasterboard suspended ceilings, including cornices, suspension grid, hangers, etc. GF 4 1ST 15 2ND 9	m ²	28		
10	600 x 600mm flush plastered gypsum plasterboard suspended ceiling panels (grid to remain) GF 221 5TH 28	No	249		
11	600 x 1200mm flush plastered gypsum plasterboard suspended ceiling panels (grid to remain) 3RD 23 4TH 21	No	44		
12	Vitrex partitions 2.60m high including doors, stiles, sides, etc., complete GF 24 1ST 5 2ND 5 3RD 8 4TH 5	m	47		
<u>Taking out and removing sundry joinery work, fittings, etc.</u>					
13	Timber wall hung cupboards 300mm wide x 650mm high GF 3 5TH 2	m	5		
14	Timber cupboard and counter top combination 600mm wide x 900mm high overall GF 6 1ST 2 2ND 2 3RD 2 4TH 2 5TH 2	m	16		
<u>Taking out and removing existing vanities, fittings, etc.</u>					
15	Vanities to walls including mounting brackets etc. GF 3	m	3		
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					Unit	Quantity	Rate	Amount
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc. from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc.</u>							
16	Internal plaster from walls and columns				m ²	7		
	GF	7						
17	Internal plaster from ceilings and beams				m ²	3		
	GF	3						
	<u>Taking up and removing wood block floor coverings, vinyl floor coverings, carpets, etc. and preparing screeds for new floor coverings</u>							
18	Vinyl tile floor covering				m ²	48		
	GF	23	1ST	6				
				2ND	6			
	3RD	7	4TH	6				
19	Vinyl tile skirtings				m	51		
	GF	10	1ST	10				
				2ND	10			
	3RD	11	4TH	10				
	<u>Hacking up/off and removing ceramic tiles including removing mortar bed or adhesive from concrete or brickwork and preparing surfaces for new screed, plaster, tile finish, etc.</u>							
20	Tiles to floors				m ²	129		
	GF	83	1ST	9				
				2ND	9			
	3RD	9	4TH	9				
				5TH	10			
21	Mosaic tiles to floors				m ²	1		
	GF	1						
22	Tiles to walls				m ²	351		
	GF	212	1ST	31				
				2ND	31			
	3RD	31	4TH	31				
				5TH	15			
	<u>Taking out and removing piping, sanitary fittings, etc., including cutting off as necessary, and disconnecting piping from fittings:</u>							
23	Stainless steel double sink and drainer mounted in timber cupboard (elsewhere removed) including short lengths of piping				No	2		
	GF	1	5TH	1				
24	Sink mixer, including short lengths of piping				No	6		
	GF	1	1ST	1				
				2ND	1			
	3RD	1	4TH	1				
				5TH	1			
25	Stainless steel single sink and drainer mounted in timber cupboard (elsewhere removed) including short lengths of piping				No	4		
	1ST	1	2ND	1				
	4TH	1		3RD	1			
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	Alterations							

					Unit	Quantity	Rate	Amount
26	Vitreous china wash hand basin, including short lengths of piping				No	24		
	GF 15	1ST 2	2ND 2					
	3RD 2	4TH 2	5TH 1					
27	WC flush master cistern, including short lengths of piping				No	6		
	GF 5	5TH 1						
28	WC seat covers				No	13		
	GF 9	1ST 2	2ND 2					
29	Vitreous china urinal, including short lengths of piping				No	7		
	GF 4	1ST 1	2ND 1					
	4TH 1							
30	Basin mixers, including short lengths of piping				No	24		
	GF 15	1ST 2	2ND 2					
	3RD 2	4TH 2	5TH 1					
31	Existing extractor fans				No	17		
	GF 8	1ST 2	2ND 2					
	3RD 2	4TH 2	5TH 1					
32	Existing shower head, including short lengths of piping				No	2		
	GF 1	5TH 1						
33	Existing shower taps, including short lengths of piping				No	2		
	GF 1	5TH 1						
34	Existing geyser and redundant piping				No	5		
	1ST 1	2ND 1	3RD 1					
	4TH 1	5TH 1						
	<u>Taking out/off and removing glass and mirrors</u>							
35	Mirrors from wall not exceeding 2.5m2				No	12		
	GF 7	1ST 1	2ND 1					
	3RD 1	4TH 1	5TH 1					
	<u>Carefully taking out/off existing glass/mirrors and store for later re-use</u>							
36	Mirrors from wall not exceeding 2.5m2.				No	2		
	GF 2							
Carried to Collection							R	
Section No. 2								
Bill No. 1								
Alterations								

Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 1

ALTERATIONS

COLLECTION

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Carried To Section Summary

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Section No. 2

Bill No. 1

Alterations

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 2</u>				
<u>MASONRY</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
GF	Ground Floor			
1ST	First Floor			
2ND	Second Floor			
3RD	Third Floor			
4TH	Fourth Floor			
5TH	Fifth Floor			
IT	Item			
<p>The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill</p>				
<u>BRICKWORK IN SUPERSTRUCTURE</u>				
<u>Brickwork of NFP bricks in class II mortar</u>				
One brick walls	m²	1		
1ST 1				
<u>BRICKWORK SUNDRIES</u>				
<u>2,5mm Brickwork reinforcement</u>				
150mm Wide reinforcement built in horizontally	m	3		
1ST 3				
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
220 x 85mm Lintels in lengths not exceeding 3m	m	1		
1ST 1				
<u>Galvanised hoop iron cramps, ties, etc.</u>				
40 x 1,6mm Galvanised wall tie strips shot pinned to concrete or brickwork and with ties bent out and built into brickwork	m	1		
1ST 1				
Carried To Section Summary			R	
Section No. 2				
Bill No. 2				
Masonry				

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	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 3</u>				
<u>CARPENTRY AND JOINERY</u>				
<div><div><u>Key:</u></div><div>Un/A GF 1ST 2ND 3RD 4TH 5TH IT</div></div> <div><div><u>Location Description:</u></div><div>Unallocated Ground Floor First Floor Second Floor Third Floor Fourth Floor Fifth Floor Item</div></div>				
The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill				
<u>DOORS</u>				
<u>40mm Semi-solid sapele horizontal panel door with 10mm concealed hardwood edges, prepared for painting</u>				
Single door 813 x 2032mm high complete with 607 x 500mm high natural anodised aluminium louvre and 200mm aluminium kickplate fixed to existing frame				
No		14		
GF 9 1ST 1 2ND 1 3RD 2 4TH 1				
Single door 813 x 2032mm high fixed to existing frame				
No		7		
GF 1 1ST 1 2ND 1 3RD 1 4TH 1 5TH 2				
Single door 813 x 2032mm high fixed to top sliding rail				
No		3		
1ST 1 2ND 1 4TH 1				
Single door 813 x 2032mm high with 100mm undercut fixed to frame				
No		2		
GF 2				
Carried to Collection				R
Section No. 2				
Bill No. 3				
Carpentry And Joinery				

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		Unit	Quantity	Rate	Amount
<u>CUPBOARDS TO KITCHENS, BEDROOMS, ETC</u>					
<u>Kitchen cupboards comprising 16mm Bisonbord (or similar aproved particle board) Melawood supagloss storm grey cupboard with top, sides, bottom, division, shelf, back, single and double hinged doors, dividing framework, with soft close door hinges, soft close ballbearing telescopic drawer runners and 200mm overlay edge pull handle in matt black finish etc.</u>					
5	300 x 900 x 650mm high Type 1 wall cupboard with top, sides, bottom, division, shelf, back and two double hinged doors GF 3	No	3		
6	300 x 2700 x 660mm high Type 3 wall cupboard with top, sides, bottom, division, shelf, back and six double hinged doors 5TH 1	No	1		
7	600 x 4750 x 900mm High Type 1 floor cupboard comprising one corner unit, two double doors, two single doors, two drawers and two pull out bin doors GF 1	No	1		
8	600 x 2700 x 900mm High Type 3 floor cupboard comprising two double doors, one single door, one drawer and one pull out bin doors 5TH 1	No	1		
9	600 x 1800 x 900mm high Type 2 floor cupboard comprising one double door, one single doors, one drawer and one pull out bin doors 1ST 1 2ND 1 3RD 1 4TH 1	No	4		
<u>Counter tops etc.</u>					
10	30mm Thick Rustenburg Black Granite counter top 600mm wide fixed to top of cupboards (elsewhere measured) GF 5 1ST 2 2ND 2 3RD 2 4TH 2	m	13		
11	Extra over for sink cut outs GF 1 1ST 1 2ND 1 3RD 1 4TH 1 5TH 1	No	6		
Carried to Collection				R	
Section No. 2					
Bill No. 3					
Carpentry And Joinery					

Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 3

CARPENTRY AND JOINERY

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Section No. 2

Bill No. 3

Carpentry And Joinery

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 4</u>				
<u>CEILINGS PARTITIONS AND ACCESS FLOORING</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
GF	Ground Floor			
1ST	First Floor			
2ND	Second Floor			
3RD	Third Floor			
4TH	Fourth Floor			
5TH	Fifth Floor			
IT	Item			
<p>The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill</p>				
<u>SUSPENDED CEILINGS</u>				
<u>Flush plastered gypsum plasterboard suspended ceilings</u>				
Ceilings shall comprise 9,5mm gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface				
<u>600 x 600mm vinyl faced Lay-in celing tiles on and including suspension grid system to match existing</u>				
Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits.	m²	15		
1ST 15				
<u>600 x 1200mm vinyl faced Lay-in celing tiles on and including suspension grid system to match existing</u>				
Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits	m²	13		
GF 4 2ND 9				
<u>600 x 600mm vinyl faced Lay-in celing tiles laid in existing suspension grid system</u>				
Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits (panels only)	No	249		
GF 221 5TH 28				
Carried to Collection			R	
Section No. 2				
Bill No. 4				
Ceilings Partitions And Access Flooring				

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		Unit	Quantity	Rate	Amount
	<u>1200 x 600mm vinyl faced Lay-in celing tiles laid in existing suspension grid system</u>				
4	Ceilings suspended exceeding 1m and not exceeding 2m below concrete soffits (panels only) 3RD 23 4TH 21	No	44		
	<u>Anodised aluminium cornices, perimeter trims, etc. to suspended ceilings</u>				
5	Type SM25 pre-painted recessed wall angles, plugged GF 10 1ST 10	m	20		
	<u>FIXED PARTITIONS (CPAP WORK GROUP NO. 138)</u>				
	<u>Supply and install Pelican Systems T1 toilet partitioning system comprising of 16mm thick particle board panels, laminated both sides with Melawood or Formica (colour to be confirmed), edged all round with 22 x 22mm lipped channel and fixed into position by means of full height vertical aluminium receiving channels fixed to the abutting wall, floor or pilaster. Pilasters and end partitions are stabilized by a continuous 25 x 25mm aluminium transom sector over doors and supplied with a complete set of standard ironmongery comprising of indicator bolts, hat and coat hooks, door stops, toilet roll holders and rubber buffers.</u>				
6	Partition 2100mm high. GF 24 1ST 5 2ND 5 3RD 8 4TH 5	m	47		
	<u>Extra over moisture resistant partitions for 40mm semi-solid flush doors with commercial veneer on both sides and hardwood edge strips to vertical edges, hung to and including standard natural anodised aluminium door frame with one pair of 100mm nylon washered aluminium hinges to each hanging stile, including additional studding, trimming, locksets and handles etc. to partitions</u>				
7	Door 762 x 2032mm high undercut by 100mm hung to and including aluminium frames GF 7 1ST 2 2ND 2 3RD 3 4TH 2	No	16		
Carried to Collection				R	
Section No. 2					
Bill No. 4					
Ceilings Partitions And Access Flooring					

Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 4

CEILINGS PARTITIONS AND ACCESS FLOORING

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Section No. 2

Bill No. 4

Ceilings Partitions And Access Flooring

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 5</u>				
<u>IRONMONGERY</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
GF	Ground Floor			
1ST	First Floor			
2ND	Second Floor			
3RD	Third Floor			
4TH	Fourth Floor			
5TH	Fifth Floor			
IT	Item			
<p>The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill</p>				
<u>IRONMONGERY SETS</u>				
<u>Supply and install the following ironmongery sets, complete</u>				
Ironmongery type 1 comprising:				
1 No. ASSA ABLOY DC500 cam action closer EN1-4SIL				
1 No. UNION SS5D152X304-06 22mm dia tubular SS dove pull handle on 152 x 304mm back plate - blank				
1 No. UNION SS5066-06SSE11 female indicator sign				
1 No. UNION SS5089-200W kick plate 200 x 800mm works				
1 No. UNION SS5023-06-304W 152 x 304mm stainless steel push plate - blank				
1 No. UNION 87001SS floor door stop satin SS	Sets	6		
IT 6				
Ironmongery type 2 comprising:				
1 No. ASSA ABLOY DC500 cam action closer EN1-4SIL				
1 No. UNION SS5D152X304-06 22mm dia tubular SS dove pull handle on 152 x 304mm back plate - blank				
1 No. UNION SS5066-06SSE10 male indicator sign				
1 No. UNION SS5089-200W kick plate 200 x 800mm works				
1 No. UNION SS5023-06-304W 152 x 304mm stainless steel push plate - blank				
Carried to Collection			R	
Section No. 2				
Bill No. 5				
Ironmongery				

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		Unit	Quantity	Rate	Amount
	1 No. UNION 87001SS floor door stop satin SS IT 7	Sets	7		
3	Ironmongery type 3 comprising: 1 No. ASSA ABLOY DC500 cam action closer EN1-4SIL 2 No. UNION PHD-CF-300-22SS SS BT handle with flange fixing - 300mm centres 22mm diameter 1 No. UNION SS5066-06SSE14 paraplegic toilet sign 2 No. UNION SS5089-200W kick plate 200 x 800mm works 1 No. UNION 37651AS paraplegic facility indicator bolt AS IT 1	Sets	1		
4	Ironmongery type 4 comprising: 1 No. UNION 2X18SCMKD double cylinder profile MKD SC 1 No. UNION SS6163-05SS SS lever handle on 152 x 75mm SS backplate profile 1 No. UNION SS5089-200W kick plate 200 x 800mm works 1 No. UNION L-2215-78SS/SL mortice sash lock - stainless steel 1 No. UNION 87001SS floor door stop satin SS IT 6	Sets	6		
5	Ironmongery type 6 comprising: 1 No. UNION 2X18SCMKD double cylinder profile MKD SC 1 No. UNION SS5305-05SS escutcheon on rose profile (pairs) 1 No. UNION 99004SS flush pull handles square 1 No. UNION L-24315-76SS 329 euro clawbolt - stainless steel IT 4	Sets	4		
6	Ironmongery type 7 comprising: 1 No. ASSA ABLOY DC500 cam action closer EN1-4 SIL 1 No. UNION SS5D152X304-06 22mm dis tubular SS dove pull handle on 152 x 304mm back plate - blank 1 No. UNION SS5089-200W kick plate 200 x 800mm works 1 No. UNION SS5023-06-304W 152 x 304mm stainless steel puch plate - blank				
	Carried to Collection			R	
	Section No. 2				
	Bill No. 5				
	Ironmongery				

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Amount

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RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 5

IRONMONGERY

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Section No. 2

Bill No. 5

Ironmongery

					Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>								
<u>RENOVATIONS TO EXISTING BUILDINGS</u>								
<u>BILL NO. 6</u>								
<u>PLASTERING</u>								
<u>Key:</u>								
Un/A								
GF								
1ST								
2ND								
3RD								
4TH								
5TH								
IT								
<u>Location Description:</u>								
Unallocated								
Ground Floor								
First Floor								
Second Floor								
Third Floor								
Fourth Floor								
Fifth Floor								
Item								
The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill								
<u>SCREEDS</u>								
<u>Cement plaster screeds wood floated, on existing concrete:</u>								
25mm Thick on floors and landings					m²	177		
GF	106	1ST	15	2ND 15				
3RD	16	4TH	15	5TH 10				
<u>INTERNAL PLASTER</u>								
<u>Cement plaster steel trowelled, on brickwork</u>								
On walls					m²	2		
1ST	2							
<u>Cement plaster steel trowelled, on concrete</u>								
On ceilings					m²	3		
GF	3							
<u>Cement plaster rendering coat with Rhinolite skim plaster finishing coat, on previously painted walls</u>								
On walls					m²	154		
GF	23	1ST	25	2ND 25				
3RD	26	4TH	25	5TH 30				
<u>CORNER PROTECTORS, DIVIDING STRIPS, ETC</u>								
<u>Dividing strips</u>								
3 x 25mm Flat section brass dividing strips between differing floor finishes					m	31		
GF	20	1ST	2	2ND 2				
3RD	3	4TH	2	5TH 2				
Carried To Section Summary							R	
Section No. 2								
Bill No. 6								
Plastering								

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		Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>					
<u>RENOVATIONS TO EXISTING BUILDINGS</u>					
<u>BILL NO. 7</u>					
<u>TILING</u>					
<u>Key:</u>		<u>Location Description:</u>			
Un/A		Unallocated			
GF		Ground Floor			
1ST		First Floor			
2ND		Second Floor			
3RD		Third Floor			
4TH		Fourth Floor			
5TH		Fifth Floor			
IT		Item			
The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill					
<u>WALL TILING</u>					
<u>300 x 600mm ceramic tiles (PC Allowance of R200.00/m2, excluding VAT, supplied and delivered to site) fixed with waterproof adhesive and joints grouted with waterproof grouting compound, all as per the tile manufacturer's specifications</u>					
On walls		m²	341		
GF	208	1ST	31	2ND	31
3RD	26	4TH	31	5TH	14
Attic stock handed over to the client (No of boxes).		No	2		
IT	2				
<u>100 x 200mm ceramic tiles (PC Allowance of R200.00/m2, excluding VAT, supplied and delivered to site) fixed with waterproof adhesive and joints grouted with waterproof grouting compound, all as per the tile manufacturer's specifications</u>					
On walls (spashback)		m²	5		
GF	3	5TH	2		
Attic stock handed over to the client (No of boxes)		No	1		
IT	1				
Carried to Collection				R	
Section No. 2					
Bill No. 7					
Tiling					

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		Unit	Quantity	Rate	Amount
<u>FLOOR TILING</u>					
<u>600 x 600mm porcelain floor tiles (PC Allowance of R350.00/m2, excluding VAT, supplied and delivered to site) fixed with adhesive to screed (screed elsewhere) and flush pointed with tinted waterproof grout:</u>					
5	On floors and landings	m²	177		
	GF 106 1ST 15 2ND 15 3RD 16 4TH 15 5TH 10				
6	100mm High skirting tile	m	67		
	GF 10 1ST 10 2ND 10 3RD 10 4TH 10 5TH 17				
7	Attic stock handed over to the client (No. Of boxes)	No	2		
	IT 2				
<u>VANITIES</u>					
<u>Vanities comprising 30mm Rustenburg black granite top, front and side fascias, splashback (measured elsewhere) and downstands, complete with support sub structure</u>					
8	600 x 1921mm Type 1 vanity with 250mm high downstand fascia complete with cut-outs for 2 No. wash hand basins	No	1		
	GF 1				
9	600 x 1429mm Type 2 vanity with 250mm high downstand fascia complete with cut-outs for 2 No. wash hand basins	No	1		
	GF 1				
10	600 x 1500mm Type 3 vanity with 250mm high downstand fascia complete with cut-outs for 2 No. wash hand basins	No	9		
	GF 5 1ST 1 2ND 1 3RD 1 4TH 1				
11	600 x 800mm Type 4 vanity with 250mm high downstand fascia complete with cut-outs for 1 No. wash hand basins	No	2		
	GF 1 5TH 1				
<u>SUNDRIES</u>					
<u>Aluminium corner protectors, stair nosings, expansion joint strips, etc</u>					
12	10mm Straight edge trim	m	184		
	GF 51 1ST 27 2ND 27 3RD 27 4TH 27 5TH 25				
13	Corner trim to tiled walls	m	15		
	GF 15				
				R	
Carried to Collection					
Section No. 2					
Bill No. 7					
Tiling					
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Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 7

TILING

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Section No. 2

Bill No. 7

Tiling

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 8</u>				
<u>PLUMBING AND DRAINAGE</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
GF	Ground Floor			
1ST	First Floor			
2ND	Second Floor			
3RD	Third Floor			
4TH	Fourth Floor			
5TH	Fifth Floor			
IT	Item			
The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill				
<u>SANITARY FITTINGS</u>				
<u>The following sanitary fittings are to be installed complete includiing connection to water supply and waste piping (elsewhere measured), including all necessary fittings, angle regulating valves, stop cocks, ball-o-stops, etc.:</u>				
Vaal Parkown TI pan BTW 580 x 350 WH CPAPTINN-2C00422 / 431500WH	No	1		
GF 1				
Vaal concorde drop in basin WH CCOBAJBA-2CO0404/ 702704WH	No	24		
GF 15 1ST 2 2ND 2 3RD 2 4TH 2 5TH 1				
Vaal Jazz thermoset seat metal hinge WH MZ005689 / 8531Z000	No	13		
GF 9 1ST 2 2ND 2				
Vaal Urinal flatback TI 415 x 315 WH CFLUR0NN2CO0422B / 705326WH	No	7		
GF 4 1ST 1 2ND 1 4TH 1				
Franke Nouveau NVN 611 stainless steel inset sink, installed with waste water drain as per manufacturers specifications	No	6		
GF 1 1ST 1 2ND 1 3RD 1 4TH 1 5TH 1				
Carried to Collection			R	
Section No. 2				
Bill No. 8				
Plumbing And Drainage				

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					Unit	Quantity	Rate	Amount
<u>TRAPS ETC</u>								
<u>Cobra Watertech</u>								
6	Cobra bottle trap 360 1&1/2x1&1/2CP FBTRAP04-0GT0154 / 360				No	8		
	GF 5 1ST 1 2ND 1 4TH 1							
7	Cobra bottle trap 345/50 1&1/4 X 50mm CP FBTRAP10-0GT0154 / 345/50				No	24		
	GF 15 1ST 2 2ND 2 3RD 2 4TH 2 5TH 1							
<u>WATER HEATER</u>								
8	10 Litre under basin water heater				No	14		
	GF 4 1ST 2 2ND 2 3RD 2 4TH 2 5TH 2							
<u>TAPS, VALVES, ETC</u>								
<u>Cobra Watertech</u>								
9	Cobra Hygia fixing mir/head screw MZ005678 / 8513Z000				No	11		
	GF 7 1ST 2 2ND 2							
10	Cobra FM 1 toilet top entry exp 1&1/4 CP FFU2STFM-0GT0174 / FM1-210				No	9		
	GF 8 5TH 1							
11	Cobra Focus sink mixer FSK1D1FO-0GT0122 / FC-970				No	6		
	GF 1 1ST 1 2ND 1 3RD 1 4TH 1 5TH 1							
12	Cobra Focus 100mm basin mixer FSK1D1FO-0GT0122 / FC-951				No	24		
	GF 15 1ST 2 2ND 2 3RD 2 4TH 2 5TH 1							
13	Cobra Angle valve 232 CP FARV0215-0GT0137 / 232-10				No	62		
	GF 32 1ST 6 2ND 6 3RD 6 4TH 8 5TH 4							
14	Cobra FJ urinal pipe offset FJT5-5CP FFU2PUFJ-0GT0168 / FJT5-5				No	5		
	GF 2 1ST 1 2ND 1 4TH 1							
15	Cobra FJ urinal VALVE ONLY fj6-0003/4 CP FFUUSUFJ-0GT0173 / FJ6-000				No	8		
	GF 5 1ST 1 2ND 1 4TH 1							
16	Cobra waste bin click no slot 1&1/4 x 50mm CP FWACBS02-0GT0153 / 302-32NOSLOT				No	24		
	GF 15 1ST 2 2ND 2 3RD 2 4TH 2 5TH 1							
Carried to Collection							R	
Section No. 2								
Bill No. 8								
Plumbing And Drainage								

		Unit	Quantity	Rate	Amount
	<u>HOLES ETC</u>				
	<u>Core drilling hole not exceeding 50mm diameter</u>				
17	255mm Thick reinforced concrete slab, beam, wall, etc IT 1	No	1		
	<u>Core drilling hole exceeding 50mm and not exceeding 100mm diameter</u>				
18	255mm Thick reinforced concrete slab, beam, wall, etc IT 1	No	1		
	<u>Core drilling hole exceeding 100mm and not exceeding 150mm diameter</u>				
19	255mm Thick reinforced concrete slab, beam, wall, etc x IT 1	No	1		
	<u>Scanning</u>				
20	Allow for scanning of slab to determine position of core drilling Un/A 1	Item			
	<u>BUDGETARY ALLOWANCE</u>				
21	Provide the budgetary amount of R5,000.00 (Five Thousand Rands) for the assessment of the existing galvanised piping IT 1	Item			5 000 00
22	Provide the budgetary amount of R45,000.00 (Forty Five Thousand Rands) for the supply and installation of replacement pipes IT 1	Item			45 000 00
Carried to Collection				R	
Section No. 2					
Bill No. 8					
Plumbing And Drainage					

Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 8

PLUMBING AND DRAINAGE

COLLECTION

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Section No. 2

Bill No. 8

Plumbing And Drainage

	Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>				
<u>RENOVATIONS TO EXISTING BUILDINGS</u>				
<u>BILL NO. 9</u>				
<u>GLAZING</u>				
<u>Key:</u>	<u>Location Description:</u>			
Un/A	Unallocated			
GF	Ground Floor			
1ST	First Floor			
2ND	Second Floor			
3RD	Third Floor			
4TH	Fourth Floor			
5TH	Fifth Floor			
IT	Item			
The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill				
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>				
<u>6mm Silvered float glass copper backed mirrors fixed to timber backing with brushed stainless steel surround with LED Halo lighting glued to back of frame surround and hooked onto wall with male / female timber rail behind, including connection of lighting to power supply supplied by others</u>				
Mirror 450 x 900mm high	No	3		
GF 2 5TH 1				
Mirror 800 x 1000mm high	No	2		
GF 2				
Mirror 800 x 1500mm high	No	7		
GF 3 1ST 1 2ND 1				
3RD 1 4TH 1				
<u>Take from store and reinstall existing mirrors</u>				
Mirror 800 x 1500mm high	No	2		
GF 2				
Carried To Section Summary				R
Section No. 2				
Bill No. 9				
Glazing				

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					Unit	Quantity	Rate	Amount
<u>SECTION NO. 2</u>								
<u>RENOVATIONS TO EXISTING BUILDINGS</u>								
<u>BILL NO. 10</u>								
<u>PAINTWORK</u>								
<u>Key:</u>					<u>Location Description:</u>			
Un/A					Unallocated			
GF					Ground Floor			
1ST					First Floor			
2ND					Second Floor			
3RD					Third Floor			
4TH					Fourth Floor			
5TH					Fifth Floor			
IT					Item			
<p>The Tenderer is advised to refer to the latest edition of the "Model Preambles for Trades 2008" as issued by the Association of South African Quantity Surveyors" before pricing this bill</p>								
<u>ON EXISTING SURFACES</u>								
<u>ON INTERNAL FLOATED PLASTER SURFACES</u>								
<u>One coat superior quality acrylic emulsion paint for interior and exterior use, on work in sound condition</u>								
Walls					m²	154		
GF	23	1ST	25	2ND 25				
3RD	26	4TH	25	5TH 30				
Ceilings and beams					m²	23		
GF	23							
<u>ON METAL SURFACES</u>								
<u>Spot priming bare metal surfaces, one coat alkyd based universal undercoat and two coats superior quality universal enamel paint, on work in poor condition</u>								
Door frames					m²	62		
GF	46	1ST	2	2ND 3				
3RD	5	4TH	3	5TH 3				
Windows					m²	19		
GF	4	1ST	3	2ND 3				
3RD	3	4TH	3	5TH 3				
Ceiling grids					m²	177		
GF	106	1ST	15	2ND 15				
3RD	16	4TH	15	5TH 10				
Carried to Collection							R	
Section No. 2								
Bill No. 10								
Paintwork								

40

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Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

BILL NO. 10

PAINTWORK

COLLECTION

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Carried To Section Summary

R

Section No. 2

Bill No. 10

Paintwork

Amount

SECTION NO. 2

RENOVATIONS TO EXISTING BUILDINGS

SECTION SUMMARY

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Carried to Final Summary

R

Section No. 2
SECTION SUMMARY

SECTION NO. 3
ELECTRICAL WORKS

		Unit	Quantity	Rate	Amount
<u>SECTION NO. 3</u> <u>ELECTRICAL WORKS</u> <u>BILL NO. 1</u> <u>ELECTRICAL WORK</u>					
	<u>Key:</u> Item	<u>Location Description:</u> Item			
<u>ELECTRICAL WORK</u> <u>PRELIMINARY AND GENERAL</u> <u>SITE MATERIAL STORE</u>					
1	The electrical contractor shall provide a safe and adequate storing space for all material and equipment brought to site. The minimum acceptable allowance is 1x 6m steel containers. These containers must be on site 14 days after contract awarding. Allow for storage space including -de-establishment of site, cleaning and tiding up in the course of the contract		Months	3	
	Item	3			
<u>TRANSPORT</u>					
2	Provide and arrange for all necessary transport including off loading of all electrical material and equipment to the site stores.		Months	3	
	Item	3			
<u>SECURITY</u>					
3	Security for the full contract period		Months	3	
	Item	3			
<u>HEALTH AND SAFETY PLAN</u>					
4	Provide a Health and Safety Plan in accordance with the OHS Act Construction Regulations, attend H&S meetings called by the Main Contractor, report on compliance with H&S Plan, appoint H&S representative and manage H&S Plan for the duration of the contract		Months	3	
	Item	3			
<u>CONTRACT MANAGEMENT</u>					
5	Full time contract management and supervision of the works including liaison with Principal Contractor, other Subcontractors, meetings and submission of installation programme including weekly revisions thereto from time to time or as may be required by the Principal Contractor or Employer.		Months	3	
	Item	3			
Carried to Collection				R	
Section No. 3 Bill No. 1 Electrical Work					

		Unit	Quantity	Rate	Amount
<u>COMMISSIONING AND TESTING</u>					
6	Supply of all test equipment and labour for testing, commissioning and adjustment of the final installation in accordance with the specification as well as being in attendance and giving assistance for any inspections and tests that the Engineer and/or the supply authority may call for.	Item			
	Item 1				
<u>OPERATIONS AND MAINTENANCE MANUALS</u>					
7	Provide three sets of O&M Manuals to the client. These manuals must at least have the following: 1. Details including catalogues and contact numbers for the hospital trunking 2. Details including catalogues and contact numbers for all the light fittings 3. Details including catalogues and contact numbers for all light switches, socket outlets and isolators 4. Details including catalogues and contact numbers for all cables used as well as wiring conductors 5. Detail including catalogues and contact numbers for all wiring channels, power skirting, cable trays and wiring containment 6. Updated DB Shop drawing 7. Contact details of the Electrical contractor	Item			
	Item 1				
<u>CLEAN AND RESTORATION OF SITE</u>					
8	Cleaning and restoration of the site after completion and also during construction to the satisfaction of the Engineer and client.	Item			
	Item 1				
<u>ELECTRICAL RETICULATION - DISTRIBUTION BOARDS</u>					
<u>COC CERTIFICATES</u>					
9	After commissioning and acceptance of each distribution board Certificate of Compliance for each power section of the DB must be issued.	No	15		
	Item 15				
Carried to Collection				R	
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
<u>EXISTING ELECTRICAL INSTALLATIONS</u>					
<u>The contractor must make himself aware of the extend of this work by visiting the site.</u>					
<u>Assisting other contractors during demolishing Phase</u>					
<u>The electrical contractor must co-ordinate with the main contractor to disconnect existing electrical as well as small power installations.</u>					
<u>The contractor must make sure that the area is save for the builders to demolish existing building works and other works required.</u>					
<u>The contractor must indicate any equipment that might be a risk during the demolishing phase.</u>					
<u>Where required the contractor must install temporary wiring for circuits that must be kept live at all times.</u>					
10	Ground Floor, Existing Kitchen/Canteen - Strip and make safe existing installation that will not be re-used Item 1	Item			
11	Ground Floor, Existing Ablution A1 - Strip and make safe existing installation that will not be re-used Item 1	Item			
12	Ground Floor, Existing Ablution A2 - Strip and make safe existing installation that will not be re-used Item 1	Item			
13	Ground Floor, Existing Ablution A3 - Strip and make safe existing installation that will not be re-used Item 1	Item			
14	First Floor, Existing kitchen and Toilets - Strip and make safe existing installation that will not be re-used Item 1	Item			
15	Second Floor, Existing kitchen and Toilets - Strip and make safe existing installation that will not be re-used Item 1	Item			
16	Third Floor, Existing kitchen and Toilets - Strip and make safe existing installation that will not be re-used Item 1	Item			
17	Fourth Floor, Existing kitchen and Toilets - Strip and make safe existing installation that will not be re-used Item 1	Item			
18	Fifth Floor, Existing kitchen and Toilets - Strip and make safe existing installation that will not be re-used Item 1	Item			
Carried to Collection				R	
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<u>MAIN CABLE CONTAINMENT</u>				
	<u>POWER SKIRTING - PVC</u>				
19	TWO COMPARTMENT PVC TRUNKING - O-line RAPID 45 type GEK-K 53160 160 mm high x 53 mm deep and 2 000mm long similar to O-line RAPID 45 type GEK-K 53160 Wall mounted two compartment type. Colour: Pure White Price must include all splices, bends and end caps. Item 10	m	10		
20	Trunking connector and joint cover Item 10	No	10		
21	Joint cover for Cover plates Item 10	No	10		
22	Rising flat angle Item 2	No	2		
23	Falling flat angle Item 2	No	2		
24	Internal corner cover Item 2	No	2		
25	External corner cover Item 2	No	2		
26	T-Piece, rising Item 2	No	2		
27	End piece, left Item 2	No	2		
28	End piece, right Item 2	No	2		
	<u>CONDUIT LINKS BETWEEN CEILING VOID AND POWER SKIRTING</u>				
29	Conduit links from power skirting to Ceiling Void: 2x 25mm diameter PVC conduits from power skirting Power compartment up to P900 in ceiling void. 1x 25mm diameter PVC conduit from power skirting Telephone compartment up to wire mesh in ceiling void. 2x 25mm diameter PVC conduits from power skirting Data compartment up to wire mesh in ceiling void				
	Carried to Collection			R	
	Section No. 3 Bill No. 1 Electrical Work				

		Unit	Quantity	Rate	Amount
	<p>A type of flush mounted draw box/wiring channel must be installed directly behind the power skirting different compartments. A hole must be made in the back of the power skirting for access into the draw box. Approved type PVC grommets must be installed in all holes cut in the back of the power skirting. All the required draw boxes and draw wire must be included.</p> <p>Item 1</p> <p><u>WORKS</u></p> <p><u>Every conduit must be straight</u></p> <p><u>Conduit and cable containment must be done as per the typical drawings</u></p> <p><u>All conduits installed by the electrical contractor for other services must have a draw wire</u></p> <p><u>All conduits mounted against concrete or brick walls must be supported by Spacebar Saddles every 1000mm</u></p> <p><u>All conduits mounted against wooden trusses must be supported by Spacebar Saddles at least every 750mm</u></p> <p><u>All PVC conduit links must be done with SANS approved PVC conduits</u></p> <p><u>For links 50mm and bigger, Nextube Kabelflex type sleeve must be used.</u></p> <p><u>All conduits and sleeves must be provided with 2mm Ø galvanised draw wire.</u></p> <p><u>All conduits will be from outlet point all the way to the cable tray, not just into ceiling void</u></p> <p><u>PVC CONDUIT AND ACCESSORIES - SOCKETS & ISOLATORS</u></p>	Item			
30	20mm Ø PVC conduits	m	40		
	Item 40				
31	Spacebar Saddles	No	40		
	Item 40				
Carried to Collection				R	
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<u>LOW VOLTAGE WIRING SPECIFICATION (GENERAL PURPOSE) - SOCKETS & ISOLATORS</u> <u>Provide, install, test and commission the following Copper conductors to SANS1507-2, High conductivity annealed stranded copper conductors to SANS 1411 Part 1. Insulated with PVC and skin coloured in plain colours to SANS 1411 Part 2. Cable is manufactured to SANS 1507 Part 2. SLIPDAC is the Aberdare Power Cables trade name for a newly developed range of General Purpose wires with superior low friction characteristics</u> <u>Rates shall allow for the installation in cable ducts, through sleeves, conduits, on trays/ladders or installation against vertical & horizontal levels.</u> <u>GENERAL PURPOSE WIRING - SINGLE PHASE</u> <u>The rate must allow for the specified wire size only</u> <u>The quantities below allow for 3x wires - Live, Neutral and Earth</u>				
32	2.5 mm ² Item 450	m	450		
33	4 mm ² (Geyser isolator) Item 1200	m	1 200		
34	6 mm ² (Stove isolator) Item 1200	m	1 200		
	<u>LOW VOLTAGE WIRING SPECIFICATION (SURFIX) - SOCKETS & ISOLATORS</u> <u>Provide, install, test and commission the following Copper conductors to SANS1507-2, SANS 1411 Part 1, PVC insulated to SANS 1411 Part 2 , laid up with a bare tinned copper earth wire in contact with a longitudinal aluminium/polyethylene laminate, UV stable PVC sheath to SANS 1411 Part 2.</u> <u>Rates shall allow for the installation in cable ducts, through sleeves, conduits, on trays/ladders or installation against vertical & horizontal levels.</u>				
35	2,5mm ² x 3 core PVC/Al laminate PVC - SOCKET IN ROOF FOR PROJECTOR) Item 520	m	520		
Carried to Collection				R	
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
36	<p><u>APPLIANCES - SWITCH SOCKETS</u></p> <p><u>CRABTREE Diamond Range</u></p> <p><u>Complete with associated Socket outlet, galvanised yoke plate, cover plate and circuit label sticker.</u></p> <p><u>The rates must include:</u></p> <ul style="list-style-type: none"> • <u>Yoke, Socket and cover plates</u> • <u>Termination of wiring</u> • <u>Circuit label sticker</u> <p><u>Installation:</u></p> <p><u>Outlets must be installed flush in brick wall, flush in partition walls, cast in concrete, surface mounted or as indicated below.</u></p> <p><u>All switch socket outlets draw boxes bottom must be installed as per the room data sheets.</u></p> <p><u>Draw boxes must be square and level, conduit openings must be closed during construction and all plaster spillages must be removed from draw box</u></p> <p><u>NORMAL POWER & NON-ESSENTIAL POWER SOCKET OUTLETS</u></p> <p><u>General description of NORMAL & NON-ESSENTIAL Supply sockets:</u></p> <p><u>The socket outlet must be a STANDARD WHITE socket with a WHITE switch and a white cover plate. Covers of power skirtings, floor boxes and Cluster cover plates will be accepted in the standard covers as per manufacturers</u></p>				
	<p>Type A:</p> <p>POWER: NORMAL and/or Non-Essential Power - Connected to an Earth Leakage unit</p> <p>TYPE: Flush mounted into a 4 x 4 Galvanised steel draw box in a brick or partition wall</p> <p>DESCRIPTION: WHITE Standard socket with WHITE single pole switch, 2x Slimline sockets with WHITE single pole switch</p> <p>and WHITE cover plate</p> <p>SUPPLIER: Crabtree CLASSIC steel range, Socket Product code: 6867/001P & Cover Product code: 6530/101P</p>	No	24		
37	<p>Type B:</p> <p>POWER: NORMAL / NON-ESSENTIAL POWER - Connected to an Earth Leakage unit</p> <p>TYPE: Flush mounted into power skirting</p>				
Carried to Collection					R
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
38	<p>DESCRIPTION: Switched WHITE socket, 3-Modules + 2x WHITE slim sockets, 1-Module each</p> <p>SUPPLIER: O-LINE OBO EGS Rapid 45 Modular 45 Outlets, Product codes: 1x 6120734 + 2x 9813802</p> <p>COVER PLATE SUPPLIER: Not required COVER PLATE SUPPLIER: See power skirting specified</p> <p>Item 3</p> <p>Type C:</p> <p>POWER: NORMAL and/or Non-Essential Power - Connected to an Earth Leakage unit</p> <p>TYPE: Surface mounted into a 4 x 4 Galvanised steel extension box</p> <p>DESCRIPTION: WHITE Standard socket with WHITE single pole switch, Slimline socket with WHITE single pole switch</p> <p>and WHITE cover plate</p> <p>SUPPLIER: Crabtree CLASSIC steel range, Socket Product code: 6859P & Cover Product code: 6529/101P</p> <p>Item 24</p> <p><u>SINGLE PHASE ISOLATOR POWER POINTS</u></p> <p><u>The rates must include:</u></p> <ul style="list-style-type: none"> • <u>Draw box</u> • <u>Yoke, Socket and cover plates</u> • <u>Termination of wiring</u> • <u>Circuit label sticker</u> <p><u>Installation:</u></p> <p><u>Outlets must be installed flush in brick wall, flush in partition walls, cast in concrete, surface mounted or as indicated on the layout drawings</u></p> <p><u>All flush isolators draw boxes must be installed as per the room data sheets.</u></p> <p><u>Draw boxes must be square and level, conduit openings must be closed during construction and all plaster spillages must be removed from draw box</u></p>	No	3		
	<p>TYPE A</p> <p>POWER: NORMAL and/or Non-Essential Power - Connected to an Earth Leakage unit</p> <p>TYPE: Vertical flush mounted into a 4 x 2 Galvanised steel draw box in a brick or partition wall</p> <p>DESCRIPTION: 230V, 30Amp, 2-pole isolator, Flush mounted with conduit outlet</p> <p>WHITE Standard Isolator, WHITE double pole switch and WHITE cover plate</p>	No	24		
Carried to Collection				R	
<p>Section No. 3</p> <p>Bill No. 1</p> <p>Electrical Work</p>					

		Unit	Quantity	Rate	Amount
	SUPPLIER: Crabtree CLASSIC steel range, Isolator Product code: 2670 & Cover Product code: 2445/1 Item 38	No	38		
	<u>CIRCUIT LABELS ON SOCKETS AND ISOLATORS</u>				
40	Brother printer circuit label/sticker Item 89	No	89		
	<u>DRAW BOXES - DEDICATED TO NON ELECTRICAL SERVICES:</u> <u>IT, DATA, TELEPHONE, NURSE CALL, SMOKE DETECTION, ACCESS CONTROL, CCTV & AIR CONDITIONING</u>				
	<u>PVC CONDUIT AND ACCESSORIES</u>				
41	25mm Ø PVC conduits Item 16	m	16		
42	Spacebar Saddles Item 8	No	8		
	<u>DRAW BOXES</u> <u>Conduit measured seperately above</u>				
43	25mm Ø PVC conduit from point to main cable containment (wire mesh or wiring channel) flush cut at outlet point 2mm draw wire Item 32	No	32		
	<u>XPELAIR EXTRACTION FANS</u>				
44	Type : Xpelair GX9 GX9 WINDOW MOUNTED EXTRACTOR FAN POWER: NORMAL and/or Non-Essential Power - not to an Earth Leakage unit TYPE: Xpelair GX9 GX9 Window Mounted Extractor Fan, Intake DESCRIPTION: WHITE SUPPLIER: Xpelair Item 17	No	17		
Carried to Collection				R	
Section No. 3 Bill No. 1 Electrical Work					

		Unit	Quantity	Rate	Amount
<u>BILL 5</u> <u>LIGHTING INSTALLATION</u> <u>GENERAL WIRING SPECIFICATIONS:</u> <u>All wiring shall comply to SANS 0142 as amended.</u> <u>All wiring shall be carried out according to the loop-in system(When earth continuity conductors are looped between terminals of equipment, the looped conductor ends shall be twisted together and ferruled</u> <u>WORKS</u> <u>Every conduit must be straight</u> <u>Conduit and cable containment must be done as per the typical drawings</u> <u>All conduits installed by the electrical contractor for other services must have a draw wire</u> <u>All conduits mounted against concrete or brick walls must be supported by Spacebar Saddles every 1000mm</u> <u>All conduits mounted against wooden trusses must be supported by Spacebar Saddles at least every 750mm</u> <u>All PVC conduit links must be done with SANS approved PVC conduits</u> <u>For links 50mm and bigger, Nextube Kabelflex type sleeve must be used.</u> <u>All conduits and sleeves must be provided with 2mm Ø galvanised draw wire.</u> <u>All conduits will be from outlet point all the way to the cable tray, not just into ceiling void</u> <u>PVC CONDUIT AND ACCESSORIES</u>					
45	20mm Ø PVC conduits	m	39		
	Item 39				
46	Spacebar Saddles	No	39		
	Item 39				
				R	
Carried to Collection					
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<p><u>LOW VOLTAGE WIRING SPECIFICATION (GENERAL PURPOSE)</u></p> <p><u>Provide, install, test and commission the following Copper conductors to SANS1507-2, High conductivity annealed stranded copper conductors to SANS 1411 Part 1. Insulated with PVC and skin coloured in plain colours to SANS 1411 Part 2. Cable is manufactured to SANS 1507 Part 2. SLIPDAC is the Aberdare Power Cables trade name for a newly developed range of General Purpose wires with superior low friction characteristics</u></p> <p><u>GENERAL PURPOSE WIRING - SINGLE PHASE</u></p> <p><u>The rate must allow for the specified wire size only</u></p> <p><u>The quantities below allow for 3x wires - Live, Neutral and Earth</u></p>				
47	<p>1,5 mm²</p> <p>Item 195</p> <p><u>LIGHT OUTLET POINTS</u></p> <p><u>Provide and install the following 230Volt Single Phase power points complete with the following:</u></p> <p><u>The rates must include:</u></p> <ul style="list-style-type: none"> <u>• 6Amp 3pin shuttered socket outlet points shall be installed for all light points in ceilings, above ceiling or mounted on the side of a wiring channel.</u> <u>• 60mm Ø round entry boxes and loop-in box where required</u> <u>• Draw boxes, steel extension boxes or any other required housing to house the power point/isolator.</u> <u>• 600/1000V PVC insulated copper wiring (General purpose wiring / Surfix to SANS 4111) termination</u> <u>• Termination of wiring</u> <u>• Cable glands and shrouds where applicable</u> <u>• Circuit number labelling on cover plates</u> 	m	195		
48	<p>In ceiling</p> <p>Item 8</p>	No	8		
Carried to Collection				R	
Section No. 3					
Bill No. 1					
Electrical Work					

		Unit	Quantity	Rate	Amount
	<u>APPLIANCES - LIGHT SWITCHES</u> <u>CRABTREE DIAMOND range</u> <u>Light switches as per description below including:</u> <u>galvanised draw box, yoke plates, specified type</u> <u>light switch, cover plate, termination and labelling</u> <u>on cover plate.</u> <ul style="list-style-type: none"> <u>NORMAL & NON-ESSENTIAL Power: WHITE</u> <u>switch and WHITE cover plate</u> <u>ESSENTIAL & UPS Power: RED</u> <u>switch and WHITE cover plate</u> <u>UPS Power:</u> <u>RED switch and RED cover plate</u> <u>All light switch draw boxes must be installed at</u> <u>1200mm AFFL except where indicated different on</u> <u>the drawings.</u> <u>The draw boxes must be flush with the brick work</u> <u>and equally spaced next to each other if more than</u> <u>one is installed.</u> <u>All draw boxes must be square and level.</u>				
49	POWER: NORMAL & NON-ESSENTIAL Power TYPE: Flush mounted in brick or partition walls. DESCRIPTION: 1x WHITE 1-Way switch, WHITE cover plate 1x Crabtree Part No: 10011/601 1x 100 x 50 galvanised draw box Item 11	No	11		
	<u>CIRCUIT LABELS ON LIGHT SWITCHES</u>				
50	Brother printer circuit label/sticker Item 11	No	11		
	<u>OCCUPANCY SENSOR SYSTEM</u>				
51	TYPE: Surface mounted High Frequency sensor with 3 year warranty (Motion Technology) TYPICAL AREAS: Store rooms, Kitchens & Small toilets if time delay is set to a long time delay COVERAGE: General: 20m Ø @ 3m mounting height SETTINGS/ADJUSTMENTS: Detection range, Time delay and Lux level sensitivity 2m to 10m radius / 10s - 30min timer / Light level: Permanent on & adjustable from 10 to 500Lux The settings is done manually on a 8-way dip switch unit				
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	Electrical Work				

		Unit	Quantity	Rate	Amount
	<p>TECHNICAL: Loads: LED lights 300Watt/1,3Amp - Incandescent 1000Watt/4,3Amp - Fluorescent lights 600W/2,6Amp.</p> <p>SUPPLIER: EcoSensor type ES606B</p> <p>Item 20</p> <p><u>APPLIANCES - LUMINAIRES</u></p> <p><u>Supply and install the following luminaires complete with control gear and lamps.</u></p> <p><u>All luminaires must bear the SANS mark of approval for the application and safety.</u></p> <p><u>All luminaires to be supplied with a 3m cord and 5Amp plug.</u></p> <p><u>No alternative luminaires will be considered during the tendering process. The successful tendered will however be given an opportunity to submit similar alternative luminaires to the Engineer for evaluation and consideration.</u></p>	No	20		
52	<p>Type A:</p> <p>TYPE: Recessed 36Watt 600 x 600 LED edge lid panel with low glare honeycomb diffuser</p> <p>TECHNICAL: PS Poly Satin Light Guide, Honeycomb low glare diffuser; Unified Glare Ratio of</p> <p>TECHNICAL: MacAdam's Ellipses Factor of 3, 36Watt unit, SMD LED strips is side mounted, 3390 lumen output</p> <p>TECHNICAL: Colour Rendering Index of CRI > 80, CCT of 4000K (Cool White)</p> <p>TECHNICAL: IP20, 100 lm/watt; Lifetime: L70B50 50 000 hours; 5 year warranty on LED's</p> <p>CONTROL GEAR: Lifud or Osram Non-Dimmable Flicker free Electronic controller; Flicker coefficient d= 0,5%,</p> <p>Active PFC, High PF, Low THD, Hiccup mode over-current protection, Surge protection: No;</p> <p>3m long 6Amp cord-set; 5-year warranty on driver</p> <p>SUPPLIER: BERGSTROM Mira code: MIRA-600x600-36W-UGR19 (Graham van den Berg 082 831 3248</p> <p>Item 6</p>	No	6		
53	<p>Type B:</p> <p>TYPE: Recessed 11W Medium Glare LED downlighter, Aluminium 6063</p> <p>body & recessed Lumieo opal diffuser</p>				
	Carried to Collection			R	
	<p>Section No. 3</p> <p>Bill No. 1</p> <p>Electrical Work</p>				

		Unit	Quantity	Rate	Amount
54	<p>TECHNICAL: 11Watt SMD LED chip on board; 909 lumen output; 90°beam angle</p> <p>TECHNICAL: MacAdam's Elipses Factor: 3, Lifetime: LED Ta= 65°C L80B50 50 000 hours</p> <p>LUMINAIRE: Luminaire Efficacy: 89lm/watt; 4000K (Cool White) Colour Rendering Index of >90,</p> <p>Glare UGR: , IP54, 125mm cut-out</p> <p>CONTROL GEAR: LiFud or similar Constant current L70B80 @ 65°C, External, Flicker free Flicker coefficient d=4%,</p> <p>Non-dimmable electronic driver; Power Factor e= 0,9/230Volt, Driven at mA,</p> <p>Warranty > 50 000 hours 5 year;</p> <p>1kV Surge protection as IEC61000-4-5; 3m long 6Amp cord-set</p> <p>SUPPLIER: BERGSTROM Andromeda code: SMD-DLVS90-11W (Graham van den Berg 082 831 3248)</p>	No	2		
	<p>Item 2</p> <p>Type B1:</p> <p>TYPE: Recessed 15W Andromeda DLVS110 SS LED downlighter, Aluminium 6063</p> <p>body & recessed Lumieo opal diffuser, With cordset</p> <p>TECHNICAL: 15Watt SMD DLVS90 LED chip on board; 1470 lumen output; 90°beam angle</p> <p>TECHNICAL: MacAdam's Elipses Factor: 3, Lifetime: LED Ta= 65°C L80B50 50 000 hours</p> <p>LUMINAIRE: Luminaire Efficacy: 98lm/watt; 4000K (Cool White) Colour Rendering Index of >90,</p> <p>Glare UGR: , IP20, 125mm cut-out</p> <p>CONTROL GEAR: LiFud or similar Constant current L70B80 @ 65°C, External, Flicker free Flicker coefficient d=4%,</p> <p>Non-dimmable electronic driver; Power Factor e= 0,9/230Volt, Driven at mA,</p> <p>Warranty > 50 000 hours 5 year;</p> <p>1kV Surge protection as IEC61000-4-5; 3m long 6Amp cord-set</p> <p>SUPPLIER: BERGSTROM Andromeda code: SMD-DLVS90-15W (Graham van den Berg 082 831 3248)</p>	No	64		
	Item 64				
	Carried to Collection			R	
	Section No. 3				
	Bill No. 1				
	Electrical Work				

		Unit	Quantity	Rate	Amount
55	<p>Type C:</p> <p>TYPE: Surface/wall mounted Subra LED Bulkhead, die-cast aluminium body, high impact opal diffuser</p> <p>TECHNICAL: 20Watt Epistar LED chip on board; - lumen output; °beam angle</p> <p>TECHNICAL: SDCM Standard Deviation Colour Matching / MacAdam's Elipses Factor: 3,</p> <p>Lifetime: LED Ta= 65°C L80B50 50 000 hours</p> <p>LUMINAIRE: Luminaire Efficacy: lm/watt; 4000K (Cool White) Colour Rendering Index of >80,</p> <p>Glare UGR: , IP65,</p> <p>CONTROL GEAR: Epistar Constant current L80B50 @ 65°C, External,</p> <p>Flicker free Flicker coefficient d=4%, Non-dimmable electronic driver;</p> <p>Power Factor e=0,9/230Volt, Driven at mA,</p> <p>Warranty > 50 000 hours 3 year;</p> <p>2kV Surge protection as IEC61000-4-5;</p> <p>SUPPLIER: BERGSTROM code: Subra LED Bulkhead 20W (Graham van den Berg 082 831 3248)</p> <p>Item 5</p> <p><u>CONTINGENCY</u></p>	No	5		
56	<p>10% electrical works contingency</p> <p>Item 1</p>	Item			
Carried to Collection					R
Section No. 3					
Bill No. 1					
Electrical Work					

Amount

SECTION NO. 3
ELECTRICAL WORKS
BILL NO. 1
ELECTRICAL WORK
COLLECTION

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Carried To Section Summary

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Section No. 3
Bill No. 1
Electrical Work

Amount

SECTION NO. 3
ELECTRICAL WORKS
SECTION SUMMARY

Bill No.

1

ELECTRICAL WORK

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Carried to Final Summary

Section No. 3
SECTION SUMMARY

R

