Item No			Quantity	Rate	Amount
	BILL I	NO. 1			
	PREL	IMINARY AND GENERAL			
	NOTE	<u>:S</u>			
	i)	The agreement is to be the General Conditions of Contract for Works of Civil Engineering Construction (2015) (Third Edition), published by the S. A. Institution Of Civil Engineering.			
	ii)	The Preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921-1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.			
	iii)	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.			
	iv)	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.			
	v)	Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable").			
	vi)	Adjustment of the preliminaries: each item priced, is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.			
		Carried to Collection		R	
	Section Bill No. Prelimir	No. 1		K	

	vii)	Time (T) related Preliminaries will only be adjusted for ommissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted.			
	SEC ⁻	TION A: GENERAL CONDITIONS OF TRACT			
1	A1 F: T:	General(clause 1)V:	Item		
2					
		Basis of contract (clause 2)V:	Item		
3	A3 F:	Employer's Agent (clause 3)V:	Item		
4			ltein		
	F: T:	Contrators general obligations (clause 4)V:	Item		
5	Cond deem Non - Annua	ed to in the Contract Data under Special tion of Contract. The Contract Period shall be ed to include all Non Working Days, Special Working Days and the year-end Builders al Industry Holiday Periods.			
	T:	V:	Item		
6	A6 F:	Payment and related matters (clause 6) V:			
	T:		Item		
7	F:	Quality and related matters (clause 7) V:	lt		
8	T:	Risks and related matters (clause 8)	Item		
0	F: T:	V:	Item		
		Carried to Collection		R	
	Bill No	on No. 1 o. 1 ninary and General			

9	A9 Terminations of contract (clause 9) F:V:			
	T:	Item		
10	A10 Claims and disputes (clause 10) F: V: T:	Item		
	SECTION B: SANS 1921-1:2004 (Edition 1): CONSTRUCTION AND MANAGEMENT REQUIREMENTS FOR WORKS CONTRACTS: PART 1			
	Refer to the SCOPE OF WORK for detail requirements:			
11	B1 Scope (clause 1) F: V: T:	Item		
12				
	B2 Normative references (clause 2) F: V: T:	Item		
13	B3 Definitions (clause 3) F: V: T:	Item		
14	B4 Requirements for construction and management (clause 4)			
	(clause 4) F: V: T:	Item		
15	B4.1 General (Clause 4.1) F: V: T:	Item		
16	B4.2 Responsibilities for design and construction (clause 4.2)			
	(clause 4.2) F: V: T:	Item		
17	B4.3 Planning, programme and method statements (clause 4.3)			
	(clause 4.3) F:V: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminary and General			

18	B4.4 Quality assurance (clause 4.4)			
	F:V:	Item		
19	B4.5 Setting out (clause 4.5) F: V: T:	Item		
20	B4.6 Management and disposal of water (clause 4.6)			
	F:V:	Item		
21	B4.7 Blasting (Clause 4.7) F: V:			
	T:	Item		
22	B4.8 Works adjacent to services and structures (clause 4.8) F: V: T:			
	T:	Item		
23	B4.9 Management of the Works and site (clause 4.9) F: V: T:	Item		
0.4		item		
24	B4.10 Earthworks (clause 4.10) F: V: T:	Item		
25	B4.11 Testing (clause 4.11) F:V:			
	T:	Item		
26	B4.12 Materials, samples and fabrication drawings (clause 4.12) F: V:			
	T:	Item		
27	B4.13 Equipment (clause 4.13) F: V: T:	ltem		
28	B4.14 Site establishment (clause 4.14)			
20	F: V: T:	Item		
	Carried to Collection		R	
	Section No. 1			
	Bill No. 1 Preliminary and General			

29	B4.15 Survey control (clause 4.15) F: V: T:			
	As built survey information prepared by an engineering surveyor to be submitted upon request to the engineer.	Item		
30	B4.16 Temporary works (clause 4.16) F: V: T:	Item		
31	B4.17 Existing services (clause 4.17)			
	F: V: T: The contractor to note that the water and electricity supplies at the specific school may be restricted or possibly non-existent. Accordingly, the tenderer to ensure that temporary supplies(water tanks/ electrical generators) are available on site to meet the project demands and to achieve continuity of the works on site. The use of potable water for construction activities			
	is prohibited.	Item		
32	B4.18 Health and safety (clause 4.18) F: V: T:			
	The Contractor shall provide all PPE requirements for all employees and visitors to the site, during the execution of the works.	Item		
33	B4.19 Environmental requirements (clause 4.19) F: V:			
	F:V:	Item		
34	B4.20 Alterations, additions, extensions and modifications to existing works (clause 4.20) F: V:			
	F:V:	Item		
35	B4.21 Inspection of adjoining structures, services, buildings and property (clause 4.21)			
	F:V:	Item		
36	B4.22 Attendance on nominated and selected subcontractors (clause 22)			
	F:V:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminary and General		, , ,	

	SECTION C: SCOPE OF WORK IN ACCORDANCE WITH SANS 10403			
	(The reference to Clauses refer to Table B.1 of SANS 1921-1:2004)			
37	F: V: T: The contractor shall provide all original certification of compliance in respect of all specialist installations and compliance testing as deemed necessary or as stipulated by the engineer.Payment will be withheld in the abscence of the provision of original compliance certificates.	Item		
38	C.2 Agrément certificates (clause 4.5) F: V: T:	Item		
39		пеш		
39	C.3 Other services and facilities (clause 4.8) F: V: T:	Item		
40	F: V: T: A rain gauge shall be provided on site for the duration of the contract. A diary shall be maintained with all rainfall records and signed off by the school principal and thereafter submitted to the engineer at every site meeting.	ltem		
41	C.5 Management meetings (clause 5.3) F: V: T:	Item		
42	C.6 Daily records (clause 5.6)			
	F:V:	Item		
43	C.7 Bond and guarantees (clause 5.7) F: V: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminary and General			_

				1	
44	C.8 Permits (clause 5.9)				
	F:V:	Item			
45	C.9 Proof of compliance with the law (clause 5.10)				
	F: V: T:	Item			
	SECTION D: SPECIFICATION DATA				
	ASSOCIATED WITH SANS 1921-1:2004				
	(Table A.1)				
46	D.1 Requirements for drawings, information and calculations for which the contractor is responsible (clause 4.1.7)				
	F:V:				
	responsible (clause 4.1.7) F: V: T:	Item			
47	D.2 The responsibility strategy assigned to the contractor for the works (clause 4.2.1)				
	contractor for the works (clause 4.2.1) F: V: T:	Item			
48	D.3 The planning, programme and method				
	D.3 The planning, programme and method statements (clause 4.3) F: V:				
	l:				
	The Contractor must provide weekly programme updates to the engineer including the identification of all				
	the activities that are delayed and the proposed plan for				
	corrective action.	Item			
49	D.4 Samples of materials, workmanship and finishes				
	(clause 4.12.1) F:V:				
	T:	Item			
50	D.5 Fabrication drawings that the contractor is to provide and deliver to the employer (clause				
	4.40.0\				
	F:V: T:				
	T:	Item			
51	D.6 Office for the foreman (clause 4.14.3)				
	F: V:				
	I:	Item			
	Carried to Collection		R		
	Section No. 1		K		\vdash
	Bill No. 1				
	Preliminary and General				

52	D.7 Telephone (clause 4.14.3) F: V: T:		
	T:	Item	
53	D.8 Office for inspector of works (clause 4.14.3) F: V:		
		Item	
54	D.9 Telephone in office for inspector of works (clause 4.14.3)		
	(clause 4.14.3) F: V: T:	Item	
55	D.10 Sheds (clause 4.14.3) F: V:		
	F:V: T:	Item	
56	D.11 Provision and erection of signboards (clause 4.14.6)		
	(clause 4.14.6) F: V: T:	Item	
57	D.12 Termination, diversion or maintenance of existing services (clause 4.17.1)		
	existing services (clause 4.17.1) F:V: T:	Item	
58	D.13 Services which are known to exist (clause		
	4.17.3) F:V: T:	Item	
59	D.14 Detection apparatus (clause 4.17.4)		
	F:V: T:	Item	
60	D.15 Additional health and safety requirements (clause 4.18)		
	F:V: T:	Item	
	SECTION E: SPECIFIC PRELIMINARIES		
	Section E contains Specific Preliminary items which apply to this contract except where "N/A" (Not Applicable) appears against the item.		
	Carried to Collection		R
	Section No. 1 Bill No. 1		
	Preliminary and General		

61	E1	PROPRIETARY BRANDED PRODUCTS			
		The tenderer shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with			
	E.	the manufacturer's authorised representative.			
	F:	V:	Item		
62	E2	OVERTIME			
	E.	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Engineer/Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the Employer.			
	F:	V:	Item		
63	E3	AS BUILT DRAWINGS			
	۲.	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the Structural Engineer's drawings and are to be submitted to the Engineer/Principal Agent and the Structural Engineer for their records.			
	F:	V:	Item		
64	E4	SITE INSTRUCTIONS			
	_	Site 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:	Item		
		Carried to Collection		R	
	Section	n No. 1			
	Bill No. Prelimi	1 nary and General			

65	E5	LABOUR RECORD			
		At the end of each week for the full duration of the contract, the contractor shall provide the employers agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day. The contractor shall provide the completed eThekwini local labour forms or DPW local labour forms format , records and schedules together with all supporting documentation (certified ID copies , employee details, wage rates, proof of payment , period of employment, employment contracts, etc). The client reserves the right to conduct random inspections on site to verify the local labour employed on the project.			
	F:	T:	Item		
66	E6	PLANT RECORD At the end of each week the Contractor shall			
		provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.			
	F:	T:	Item		
67	E7	NON CESSION OF MONIES			
	F:	The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract. V:	ltown		
68	E8	T: SECTIONAL COMPLETION	ltem		
00	F :	When it is required that the contract be executed in sections or portions, the tenderer shall allow for all costs in this regard as no claim for additional costs will be entertained.			
	-	V:	Item		
		Carried to Collection		R	
	Section Bill No. Prelimi	No. 1			

69	E9	LOCAL LABOUR			
	F:	It is a general requirement of this contract that persons normally resident in the locality of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate Labour not be available within the locality, other may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local Labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of local Labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth and preference should be given to the resident of the hostel. The Contractor shall, in general, maximize the involvement of the local labour and it is required that 100% of unskilled labour should be from the local community. All standard local labour employment forms (eThekwnini Municipality local labour forms or EPWP local labour forms) together with the supporting documentation (certified ID copies, employee details, wage rates, proof of payment, period of employment, employment contracts, etc) must be submitted with the monthly payment certificates and issued to the engineer.			
		T:	Item		
70	E10	The responsibility for obtaining the necessary import permits shall rest with the successful Tenderer. No foreign exchange will be arranged or provided by the Administration. Tenderers are to allow in their tenders and pay the ordinary levy imposed on imported items in terms of item 196.10 of Part 8 of Schedule No. 1 of the Customs and Excise Act, 1964 with effect from 1 October 1989.	Item		
	Coation	Carried to Collection		R	<u> </u>
	Bill No	n No. 1 . 1 inary and General			

		ı	1	
71	E11 CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)			
	Notwithstanding anything to the contrary contained in the GCC for Construction Works 2015 3rd Edition, this Contract shall only when the Construction Period exceeds 6 months and the Contract sum exceeds R1,000,000,000 be subject to the Contract Price Adjustment Provisions Indices Application Manual for use with P0151 indices (CPAP) (Revised 1 January 2013) as published by Statistics South Africa. Tenderers are advised that with reference to Clause 3.4.6 of the Contract Price Adjustment Provisions (CPAP) Indices Applications Manual, the Head: Public Works will not accept the submission by Tenderers of lists of additional items unless otherwise instructed.			
	Where this contract is a Lump Sum contract, the contract will be subject to Contract Price Adjustment Provisions (CPAP) only where the contract period equals or exceeds 6 calendar months. The applicable work group shall be WG 180 for domestic buildings or WG 181 for commercial and industrial buildings. F: V:			
	T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminary and General			
	•			

72	E12	EXPANDED PUBLIC WORKS PROGRAMME (EPWP)				
		Tenderers are advised that this contract will be subject to certain provisions of the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment.				
		Tenderers must allow for any costs for the following employment requirements of the EPWP.				
		 55% of unskilled labour to be women. 40% of unskilled labour to be youth aged between 18 and 35 years. 2% of unskilled labour to be people living with disability. 100% Unskilled labour utilised must reside within the boundries of the Municipality Ward where this contract is executed, with preference to the local community closest or at the walking distance to the contract site. Wherever possible local skilled tradesmen are to be employed on this contract with the view to maximize utilization of local resources. This is not an EPWP project. 				
	F:	TENDERERS TO NOTE: Those parts of the contract to be constructed using Labour intensive methods have been marked in the bills of quantities/lump sum document with the letters LI (indicating "Labour Intensive") against every item so designated. The works, or parts of the works so designated are to be constructed using Labour intensive methods only. V:	ltem			
	Castion	Carried to Collection		R		
	Section Bill No. Prelimin					
	l		1	I	4	ı

73	E12.1	LABOUR RATE AND PAYMENT INTERVALS			
	F:	The contractor should ensure that labour rate paid to unskilled local labour is commensurate to the daily task. When determining the rate, consideration should be given to beneficiaries are mostly bread winners in their families, as the program intends alleviating poverty. There should also be consideration that the labour rate promotes creation of expanded number of jobs created and person days of work. The labour rate for local unskilled shall also be determined in consideration of the location of the project, i.e. for projects implemented in urbanized municipalities will not be the same as that for rural municipalities. V:	ltoro		
7.4	5 40.0		Item		
74	F:	12.3.1 Every employer must keep in the project site office the following minutes of site progress minutes; contractors' monthly site progress reports; accurately recorded attendance register; proof of payment as means to verify authenticity of data in the EPWP Beneficiary form submitted with payment certificates. Copies of submitted EPWP beneficiary data forms should also be kept in the site office. V: T:			
		T:	Item		
75	E12.3	SUB CONTRACTING OPPORTUNITIES FOR LOCAL BUSINESS IN CONSTRUCTION DEVELOPMENT COMPANIES The Contractor will sub-contract as per eThekwini enterprise development policy against the contract value. A schedule entitled "Tendered Contract Participation Goal" is appended a returnable.			
	F:	T:V:	Item		
		Carried to Collection		R	
	Section Bill No. Prelimin	No. 1			

76	E13	HIV/AIDS AWARENESS			
		Tenderers are to price against the following items for compliance with the SPECIFICATION FOR HIV/AIDS AWARENESS bound into this document (The clauses referred to are those of the Specification for HIV/AIDS)			
		Provide and maintain a condom dispenser in terms of Clause 5.1a V:			
		T:	Item		
77		Provide and maintain HIV/AIDS awareness posters terms of Clause 5.1b V:			
		T:	Item		
78	E13.2	HIV /Aids Awareness Programme on Site for not less than 90% of workers inclusive of all direct and indirect costs; Engage a qualified service provider as described in the scope of works to conduct an HIV Awareness Programme in terms of Clause 5.2.1a			
	F:	V:	Item		
		 	Item		
79	E13.3 F:	Arrange for workers to attend the HIV Awareness Programme in terms of Clause 5.2.1b			
	Г	V:	Item		
80	E13.4	REPORTING			
	⊑ .	Prepare and attach to claims for payment a brief report in terms of Clause 5.3 (see also HIV/STI Compliance Report (included with this document).			
	F:	T:	Item		
		Carried to Collection		R	
	Section	n No. 1			
	Bill No. Prelimi	1 nary and General			

	Note:	In the event that the contractor fails to satisfy the requirements of this specification, the employer (Head: Public Works) may apply any of the sanctions provided for in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum.			
81	E14	OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993			
	F:	Tenderers are to allow for costs in providing a project specific 'Construction Phase Safety, Health and Environmental Plan' in accordance with "Section 2 - Specification Data associated with SANS 1921-1:2004" clause C4.18 in "Part C3 - Scope of Work" V:			
	' ·		Item		
82	E15	NOTICE BOARD, SITE OFFICE, ETC			
	F:	Bidders are to allow for the provision and removal of a project notice board and a site office in accordance with the Principal Agent's requirements. V:			
		T:	Item		
83	E16	Where imported items are listed in the tender documents, the tenderer shall provide all information called for, failing which the price of any such item, material or equipment shall be excluded from currency fluctuations. V: T:	Item		
		Carried to Collection		R	
	Section	ı No. 1			
	Bill No. Prelimi	1 nary and General			

84	E17	CONTRACT DOCUMENTS			
		The drawings issued with these Bid documents do not comprise the complete set but serves as a guide only for Biding purposes and for indicating the scope of works to enable the Bidder to acquaint him with the nature and extent of the works and the manner in which they are to be executed.			
	F:	Should any part of the drawings not be clearly legible to the Bidder he shall, before submitting his Bid, obtain clarification in writing from the principal agent. V:			
		T:	Item		
85	E18	GENERAL PREAMBLES			
	г.	The Document Preambles will be the "ASAQS Model Preambles for Trades - 2008" and is obtainable from the various online through the Public Works website or available on rquest and shall be read in conjunction with the Bills of Quantities and be referred to for the full descriptions of work to be done and materials to be used.			
	F:	V: T:	Item		
86	E19	TRADE NAMES			
	F:	Wherever a Trade Name for any product has been described in the Bills of Quantities the Bidder's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the Principal Agent being obtained prior to the closing date for submission of Bids.			
	Г	V:	Item		
					L
		Carried to Collection		R	
	Section	ı No. 1			
	Bill No. Prelimi	1 nary and General			

87	E20	EXISTING PREMISES			
	F:	The contractors attention is drawn to the fact that the existing building and surrounding buildings will remain in occupation during the performance of this contract and it is essential that the interruption to the daily activities of be kept to a minimum during the construction activities, to this end, the Contractor must allow for working in co-operation with the Engineer in organising the work in such a way as to cause the minimum disruption to the normal activities of this institution V:	ltem		
	1		itom		
88	E21	The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect his work. Should any inaccurate or defective work be found, the contractor shall immediately notify the principal agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work. V:	Item		
89	E22	VIEWING THE SITE IN SECURITY AREAS			
		If the site is situated in a security area and the Bidder must arrange with the Authorities to obtain permission to enter the site for Bidding purposes. V:	ltem		
		Carried to Collection		R	
	Section Bill No. Prelimin				

90	E23	COMMENCEMENT OF WORKS IN SECURITY AREAS			
	Г.	If the works falls within a security area, the contractor must arrange with the Authorities and give the necessary notices before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account.			
	F:	V:	Item		
91	E24	ENTRANCE PERMITS TO SECURITY AREAS			
		If the works fall within a security area, the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under control of the Authority.			
	F:	V:	Item		
92	E25	SECURITY CHECK OF PERSONNEL			
	F:	The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified. In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works. V:			
	• •	T:	Item		
		Carried to Collection		R	
	Section	No. 1			
	Bill No. Prelimi	1 nary and General			

96	E29	ACCESS			
	F:	The contractor is to allow for all costs associated with sites having restricted access due to location, road conditions, etc. The contractor to note the sites have extremely restricted access and in some instances, restricted access may affect the delivery of materials etc. The contractor to accordingly ensure the most suitable and effective access routes are investigated and implemented to achieve continuity of the works. V:			
		T:	Item		
97	E30	SAFETY TO THE SITE			
	E.	All scaffolding, protection, machinery and tools on the site shall be erected, used and/or maintained in accordance of the requirements of the Occupational Health and Safety Act (85/1993) as amended and any regulations thereto. All relevant local authority bylaws shall also be complied with. The contractor to provide suitable hoarding to demarkate the area of the construction works from the other adjacent operational areas. All open excavations and incomplete construction work to be cordined off with danger tape.			
	F:	V: T:	Item		
98	E31	ASBESTOS CEMENT All preparatory work, alterations, demolitions, etc. to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc. are to be carried out strictly in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations, 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposing of waste resulting from cleaning operations, etc. Allowance is to be made for costs associated with compliance with these Regulations. V:	ltem		
		Carried to Collection		R	
	Bill No.	n No. 1 . 1 nary and General			

99	E32	EXISTING PREMISES OCCUPIED			
	F:	The Contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining building and occupants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins, temporary fences that may be necessary during the progress of the works, all to the satisfaction of the employers agent. The contractor may have to sequence noisy activities during school hours. In addition, no disruptions will be entertained during examinations. V:	Item		
	Section	Carried to Collection n No. 1		R	_
	Bill No				

Section No. 1				
Bill No. 1				
Preliminary and General				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	66			
	67			
	68			[
	69			[
	70			[
	71			[
	72			
	73			
	74			
	75			
	76			
	77			
	78			
	79			
	80			
	81			
	82			
	83			
	84			
	85			
Carried Forward Section No. 1 Bill No. 1 Preliminary and General		R		
				l

Section No. 1				
Bill No. 1				
Preliminary and General				
COLLECTION				
	Brought Forward	Page No	R	Amount
Total Brought Forward from Page No.		86 87		
Carried Forward to Summa Section No. 1	ry of Section No. 1		R	
Bill No. 1 Preliminary and General				

Item No			Quantity	Rate	Amount
	BILL NO. 2				
	OCCUPATIONAL HEALTH AND SAFETY				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule. SECTION F: OCCUPATIONAL HEALTH AND SAFETY				
	PPE:				
1	Hi-Visibility conti-suit (Small to XL Royal Blue) : Annually	No	1		
2	Hi-Visibility conti-suit (Small to XL Orange with EPWP Logo) : Annually	No			
3	Steel Toe Capped Safety Boots : Annually	No			
4	Hi-Visibility Safety Vest: Annually	No			
5	SABS Approved Hard Hat: Annually	No			
6	Hi-Viaibility Rain Suits: Annually	No			
7	Steel Toe Capped Gumboots: Annually	No			
8	Dust Masks (Stipulate FFP):Annually	No			
9	Safety Glasses: Annually	No			
10	Gloves (Stipulate Type): PVC Gloves: Annually	No			
11	Safety Harnesses: Annually	No			
12	Disposable gloves (Stipulate Type): PVC Gloves: Monthly	No			
	Carried to Collection Section No. 1 Bill No. 2 Health and Safety			R	

13	Reusable/disposable surgical masks : Monthly	No		
14	Others Contractor to specify	No		
	TRAINING:			
15	Safety Representative Training : Once off	No		
16	First Aider Training : Once off	No		
17	Fire Fighting Training : Once off	No		
18	Fall Protection plan developer	No		
19	HIV awareness	No		
20	All compulsory	No		
	SCAFFOLDING:			
21	Scaffolding Supervisor as per SANS 10085: Once off	No		
22	Scaffolding Inspector as per SANS 10085 : Once off	No		
23	Scaffolding errector as per SANS 10085 : Once off	No		
24	Traffic Officer training : Once off	No		
25	Others Contractor to specify: Once off	No		
	SPECIFIC H& S ITEMS			
26	Medicals : Prea-placement, Annual & Exit	No		
27	Screenings for employees with COVID-19 Symptoms	No		
28	Spill Kit : Once off	No		
29	First Aid Kits: Once off	No		
30	Fire Extinguishers : Once off	No		
31	Barrier Netting : Once off	No		
32	Additional Ablutions : Once off	No		
	Carried to Collection		R	
	Section No. 1 Bill No. 2			
	Health and Safety			
			l	

33	Non-contact Infrared Thermometers and maintenance thereof : Once off	No		
	Safety Signage:			
34	Construction Boards: Once off	No		
35	Directional Signs: Once off	No		
36	Emergency Assembly point: Once off	No		
37	No Smoking : Once off	No		
38	No Naked Flames: Once off	No		
39	COVID -19 Signage : Once off	No		
	H&S SALARIES			
40	CHS Manager : Monthly	No		
41	CHS Officer : Monthly	No		
42	COVID-19 Compliance Officer : Monthly	No		
	Fixed Charge Item			
43	Facilities for Contractor including offices, storage sheds, workshops, laboratories, living accommodation, ablution and latrine facilities, tools and equipment, water supplies, electric power, communications, setting out of works, security, traffic access - Made COVID-19 Safer. : Monthly	No		
44	Hand Sanitiser - 500ml Cleaning detergents for everyday cleaning and hand wash : Monthly	No		
45	Extra Cleaning - Disinfection/Sanitisation of workplace : Monthly	No		
46	Maintenance of a register for workers contacts : Monthly	No		
47	COVID-19 Awareness Signs : Once off	No		
48	COVID-19 Waste Management : Monthly	No		
49	COVID-19 Safety File : Once off	No		
	Carried to Collection Section No. 1 Bill No. 2 Health and Safety		R	
	,			

Section No. 1				
Bill No. 2				
Health and Safety				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	90			ļ
	91			
	92			ļ
Carried Forward to Summary of Section No. 1		R		
Section No. 1 Bill No. 2				
Health and Safety				
				1

	SECTION SUMMARY - Preliminaries				
Bill No		Page No		Amount	
1	Preliminary and General	89			
2	Health and Safety	93			
	Carried to Final Summary		R		
	Section No. 1				

Item No		Quantity	Rate	Amount	
	BILL NO. 1				
	ALTERATIONS AND DEMOLITIONS (PROVISIONAL)				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	Samples				
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent				
	SUPPLEMENTARY PREAMBLES				
	Note: Prices for "removing" are to include for removal from site				
	<u>DEMOLITIONS</u>				
	Temporary fence including shade cloth fixed to timber poles at suitable centres, with allowance for vehicle access and pedestrian gates fixed at the contractors discretion and shall be maintaned and finally removed, including making good all as per the Principal Agents approval.				
1	Hoarding 2000mm high, complete m	200			
	REMOVAL OF EXISTING WORK				
					-
	Carried to Collection		R		
	Section No. 2 Bill No. 1 Alteration (Demolition)				

	Breaking up and removing reinforced concrete including cutting off & removing reinforcement				
2	100-150mm Thick surface beds	m2	769		
3	100mm thick concrete stormwater open channels, aprons, etc	m	160		
4	Concrete counter	m2	33		
5	Concrete sink	No	60		
6	Concrete ironing boards	m2	2		
7	Reinforced concrete table including steel legs and concrete benches	m2	19		
	Breaking up and removing brick work or block work etc.				
8	Half brick walls	m2	126		
	Taking out and removing doors, windows, etc including thresholds, sills, etc				
9	Timber single door and steel door frame from 190mm thick wall	No	58		
10	Timber single door and steel door frame from 90mm thick wall	No	68		
	Taking out and removing sundry joinery work, fittings, etc				
11	Timber wall cupboards (size) BIC	No	156		
12	Timber bench	No	39		
	Taking down and removal of rainwater disposal, etc				
13	Existing gutters	m	162		
14	Existing downpipes	m	144		
15	Existing fascia and barde boards	m	162		
	Carried to Collection Section No. 2 Bill No. 1 Alteration (Demolition)			R	

	Taking out and removing ceilings , partitions, etct				
16	Gypsum plasterboard ceilings including timber brandering, cornices, cover strips etc	m2	701		
	Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc				
17	20mm screed from floors	m2	2,804		
18	20mm thick roof screed including waterproofing	m2	769		
19	Internal plaster from walls	m2	9,137		
20	Internal plaster from ceilings and beams	m2	2,103		
21	External plaster from walls, columns and beams	m2	1,995		
	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				
22	Tiles to walls	m2	340		
	Scraping off paint in bad conditions and prepare for new paint				
23	On ceilings	m2	2,103		
	Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)				
24	Stainless steel Kitchen sink on concrete counter	No	56		
25	Wash hand basin	No	64		
26	Floor mounted WC with cistern	No	44		
27	Existing shower tray to be removed	No	44		
28	Litre geyser from wall (ceiling)	No	24		
	Carried to Collection			R	
	Section No. 2 Bill No. 1 Alteration (Demolition)				

	Taking out and removing glass and mirror				
29	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	249		
	Cutting through floors				
30	Saw cut top of existing concrete surface bed/ slabs to a minimum depth of 20mm prior to breaking up and removing concrete, etc complete.	m	440		
	Building opening				
31	90mm brick walls	m2	268		
32	190mm brick walls	m2	73		
	<u>Sundries</u>				
33	Cutting toothing and bonding new brickwork to existing	m2	29		
	Preparatory works to existing surfaces				
34	Hacking surface of existing floors to create key to receive new floor finish	m2	769		
35	Hacking surface of existing face brickwork to create key to receive new external plaster	m2	1,993		
	MAKING GOOD OF FINISHES, ETC				
	MAKING GOOD OF FINISHES, ETC Making good internal cement plaster				
36		m2	29		
36 37	Making good internal cement plaster	m2 m2	29 5		
	Making good internal cement plaster Walls where 90mm brickwalls were removed				
	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed				
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed	m2	5		
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed Floors where 90mm brick walls were removed	m2 m	5 80		
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed Floors where 90mm brick walls were removed	m2 m	5 80		
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed Floors where 90mm brick walls were removed	m2 m	5 80		
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed Floors where 90mm brick walls were removed	m2 m	5 80		
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed Floors where 90mm brick walls were removed Floors where 230mm brick walls were removed Carried to Collection	m2 m	5 80	R	
37	Making good internal cement plaster Walls where 90mm brickwalls were removed Walls where 190mm brickwalls were removed Making good screed Floors where 90mm brick walls were removed Floors where 230mm brick walls were removed	m2 m	5 80	R	

1		1	ı		II	1
	Breaking out for and forming openings through brickwalls for new doors and frames including					
	necessary precast concrete lintels and making good					
	plaster on both sides and into reveals and with					
	90mm concrete thresholds with steel trowelled finish (new doors and frames and making good					
	paintwork)					
40	Opening for single door size 900 x 2032mm high	No	38			
	CLEANING OF EXISTING SURFACES TO					
	RECEIVE NEW FINISH					
	High pressure cleaning					
41	Existing face brick walls	m2	326			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 1 Alteration (Demolition)					
						1

Section No. 2				
Bill No. 1				
Alteration (Demolition)				
COLLECTION				
Total Brought Forward from Page No.	Page No 95 96 97 98 99		Amount	
Carried to Final Summary		R		
Section No. 2 Bill No. 1 Alteration (Demolition)				

Item No		Quantity	Rate	Amount
	BILL NO 1			
	CONCRETE, FORMWORKAND REINFORCEMENT			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	SUPPLEMENTARY PREAMBLES			
	Cost of tests			
	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)			
	<u>Formwork</u>			
	Formwork Descriptions of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use. The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Carried to Collection Section No. 3 Bill No. 1 Concrete Formwork and Reinforcement		R	
	Concrete, Formwork and Reinforcement			

	Formwork to soffits of (solid) slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer fordesign reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks" REINFORCED CONCRETE				
	30MPa/20mm concrete				
1	Slabs, including beams and inverted beams	m3	100		
	TEST CUBES				
2	Making and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	25		
	CONCRETE SUNDRIES				
	Finishing top surfaces of concrete smooth with a power float				
3	Surface beds, slabs, etc	m2	769		
	Fabric reinforcement				
4	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	769		
	SMOOTH FORMWORK (DEGREE OF ACCURACY 1)				
	Smooth formwork to sides				
5	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	132		
	MOVEMENT JOINTS ETC				
	Carried to Collection			R	
	Section No. 3 Bill No. 1 Concrete, Formwork and Reinforcement				

	Two layers of 0,6mm galvanised sheet steel in slip joints between horizontal concrete and brick surfaces, including cement mortar bed				
6	Not exceeding 300mm wide	m	440		
	Expansion joints with softboard between vertical concrete and brick surfaces				
7	10mm Joints not exceeding 300mm high along edges of surface beds	m	440		
	Expansion joints with bitumen-impregnated softboard between vertical concrete surfaces				
8	10mm Joints not exceeding 300mm high or wide	m	440		
	Saw cut joints				
9	30 x 3mm Saw cut joints in top of concrete	m	440		
	Carried to Collection			R	
	Section No. 3			, ,	+
	Bill No. 1 Concrete, Formwork and Reinforcement				

Section No. 3			
Bill No. 1			
Concrete, Formwork and Reinforcement			
COLLECTION			
	Page No		Amount
Total Brought Forward from Page No.	101		
	102 103		
	103		
Corried Femurard to Summary of Section No. 2			
Carried Forward to Summary of Section No. 3 Section No. 3		R	
Bill No. 1 Concrete, Formwork and Reinforcement			

Item No		Quantity	Rate	Amount
	BILL NO. 2			
	MASONRY			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>Samples</u>			
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent			
	SUPPLEMENTARY PREAMBLES			
	BLOCKWORK			
	Concrete masonary units			
	Blocks are to be either solid or hollow modular dense concrete masonary units having a compressive strength of 14MPa			
	Carried to Collection		R	
	Section No. 3 Bill No. 2 Masonry			

1	Blockwork				
	Blockwork shall comply with SANS 10145 "Concrete Masonry Construction" Surfaces to be plastered shall have joints raked out to depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole				
	Standard complementary blocks Descriptions of blockwork shall be deemed to include standard complementary blocks such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc to solid and hollow walls and for bonding as necessary				
	SUPERSTRUCTURE				
	Blockwork in class ii mortar with cores filled solid with mortar				
1	90mm Walls	m2	528		
2	190mm Walls	m2	254		
	Bagging of 1:3 cement and sand mixture				
3	On brick walls	m2	295		
	Joint forming material in movement joints				
4	12mm Fibre board built in vertically between brick skins	m2	82		
	Brickwork reinforcement				
5	75mm Wide reinforcement built in horizontally	m	155		
6	150mm Wide reinforcement built in horizontally	m	155		
	Turning pieces				
7	230mm Wide turning piece to lintels etc	m	184		
	Carried to Collection Section No. 3 Bill No. 2 Masonry			R	

	Galvanised hoop iron cramps, ties, etc					
8	3 x 30mm Wall tie 375mm long with one end cast into concrete and other end built into brickwork	No	280			
	Air bricks etc					
9	229 x 76mm Clay vermin proof air brick	No	26			
	SUNDRIES					
10	180mm Wide turning piece to lintels etc	m	184			
	SUPERSTRUCTURE					
	Blockwork in class ii mortar with cores filled solid with mortar					
11	90mm Walls	m2	405			
12	190mm Walls	m2	793			
	<u>SUNDRIES</u>					
40			40			
13	180mm Wide turning piece to lintels etc	m	40			
	Section No. 3	on		R		
	Bill No. 2					
	Masonry					
l					II	I

Section No. 3				
Bill No. 2				
Masonry				
COLLECTION				
Total Brought Forward from Page No.	Page No 105 106 107		Amount	
Carried Forward to Summary of Section No. 3		R		
Section No. 3 Bill No. 2 Masonry				

Item No			Quantity	Rate	Amount	
·	BILL NO 3					
	WATERPROOFING					
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.					
	<u>Trade names</u>					
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description					
	<u>Samples</u>					
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent					
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course					
1	In walls	m2	255			
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
2	Under surface beds	m2	769			
	Two coats "Brixeal" bitumen emulsion waterproof coating					
3	On bagged brick walls	m2	340			
	WATERPROOFING TO ROOFS, BASEMENTS, ETC					
	Carried to Collection Section No. 3			R		<u> </u>
	Bill No. 3 Waterproofing					

	4mm "Derbigum SP" fully bonded waterproofing					
4	On flat roofs not exceeding 25 degrees from the horizontal	m2	215			
5	On turn-ups and turn-downs exceeding 500mm high	m2	150			
6	30 x 30mm Triangular fillet	m	174			
	"Duraflex"or equally approved cementitious flexible waterproofing slurry including saturation membrane with 75mm side and 100mm end laps applied in accordance with manufacturer's specifications.					
7	On shower walls	m2	340			
8	On shower floors	m2	49			
	JOINT SEALANTS ETC					
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
9	10 x 10mm In saw cut joints in floors	m	1,320			
	Clear silicone sealant					
10	In waterproofing joints between fittings and walls (Provisional)	m	5,511			
11	In joint sealing and pointing between external aluminium window frames and facebrick surround(Provisional)	m	5,511			
	ENGINEERING					
	One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"					
12	Under surface beds	m2	769			
	Two coats "Brixeal" bitumen emulsion waterproof coating					
13	On bagged brick walls	m2	168			
	Section No. 3 Bill No. 3 Waterproofing			R		
		l		l	l	1

	$\frac{\text{WATERPROOFING TO ROOFS, BASEMENTS,}}{\text{ETC}}$				
	4mm "Derbigum SP" fully bonded waterproofing				
14	On turn-ups and turn-downs exceeding 500mm high	m2	168		
15	30 x 30mm Triangular fillet	m	120		
	JOINT SEALANTS ETC				
	"Thioflex 600" two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
16	10 x 10mm In saw cut joints in floors	m	180		
17	10 x 10mm In expansion joints in floors	m	180		
	Carried to Collect	ion		R	
	Section No. 3 Bill No. 3				
	Waterproofing				

Section No. 3			
Bill No. 3			
Waterproofing			
COLLECTION			
Total Brought Forward from Page No.	Page No 109 110 111		Amount
Carried Forward to Summary of Section No. 3		R	
Section No. 3 Bill No. 3 Waterproofing			

Item No		Quantity	Rate	Amount
	BILL NO. 4			
	ROOF COVERINGS, ETC			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>Samples</u>			
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent			
	PROFILED METAL SHEETING AND ACCESSORIES			
	Where roof coverings are fixed on top of rigid board insulation to purlins etc, descriptions of roof coverings shall include thereforNote that sheeting is also available in corten steel, stainless steel, copper and aluminium			
	0,53mm Zincalume roof sheeting steel resin coated, AZ150 minimum (150g/m2) coating mass, grade 550 (minimum yield strength of 550 Mpa) and accessories fixed to timber purlins:			
1	Roof coverings with pitches not exceeding 25 degrees m2	997		
2	Head wall flashings 600mm girth m	189		
3	Apex Flash 462mm girth 1 times bent including Serrated Closers and PolyClosers.	30		
	Carried to Collection		R	
	Section No. 3 Bill No. 4 Roof Coverings			

	Zincalume Ridge capping:				
4	Ridge capping to suit roof profile	m	89		
5	Sondor corrugated pattern polyclosers at ridge and eaves.	m	89		
	ROOF AND WALL INSULATION				
	'SISALATION FR 405' underlay over trusses and under purlins on training tape - to be Class B/B1/2/H&V. in accordance with SANS 10400 Part T				
6	50mm approved High Density Polystyrene Insulation beveled insulation boards laid horizontally over on engineered trusses and secured with screws through purlins.	m2	997		
	Commind to Callenti				
	Section No. 3	on		R	_
	Bill No. 4 Roof Coverings				

Section No. 3				
Bill No. 4				
Roof Coverings				
COLLECTION				
Total Brought Forward from Page No.	Page No 113 114		Amount	
Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 4 Roof Coverings		R		

Item No		Quantity	Rate	Amount	
	BILL NO. 5				
	CARPENTRY AND JOINERY				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Samples</u>				
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent				
	SUPPLEMENTARY PREAMBLES				
	Particle board:				
	Particle board shall comply with the following specifications:				
	SABS EN 317 Parts 1 to 7 for exterior, interior and flooring type particleboard				
	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				
					_
	Carried to Collection		R		
	Section No. 3 Bill No. 5 Carpentry and Joinery				=
		l		II I	

1	1	1	n ?	
	<u>Fixing</u>			
	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			
	Decorative laminates are to comply with SABS 1S0 4586 and SABS 1405			
	ROOFS ETC			
	Plate nailed timber roof truss construction			
	Note: Timber roof trusses are to comply with SABS Code of Practice 0243. Patent manufactured trusses by GANGNAIL or other equal approved truss design. The design, manufacture and erection of timber trusses to be done in accordance with the Engineer's instructions and TR 1 & TR 2 certificate must be provided on completion			
	The following is applicable in respect of roof trusses:			
	Trusses are at maximum 1200mm centres. Roof covering is galvanized roof sheeting on timber purlins. Ceilings are 6.4mm Rhinoboard ceiling on 38 x 50mm brandering.			
	The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences			
	ROOFS, ETC			
	Carried to Collection	R		
	Section No. 3			
	Bill No. 5 Carpentry and Joinery			

	Sawn softwood				
	Complete roof construction Hip and Valley at L-intersection to double pitched roof, 769m² measured on flat overall on plan at high of 9600mm high overall, including part trusses, jack rafters, hip and valley rafters, permanent bracing, ec (purlins ,battens elsewhere) and Allow for bracing, cross bracing, connecting clips, fixing brackets, hurricane clips, etc., as required for fixing in position of roof trusses as described in accordance with the manufacturer's instructions			R	565,000.00
1	38 x 114 mm Wall plates	m	158		
	Sawn softwood grade 4				
2	50 x 75mm Purlins	m	1,173		
	Wrought softwood grade 4				
3	76 x 76mm Splayed purlins	m	173		
	EAVES, VERGES, ETC				
	Medium density plain fibre-cement fascias and barge boards				
4	12 X 225 mm Fascias boards	m	158		
	DOORS, ETC				
	Wrought meranti doors hung to steel frames				
5	40mm Framed door 813 x 2032mm high of 115mm top rail and stiles, 115mm middle rail and 212 mm bottom rail, with 23 x 552mm high solid fielded bottom panel and open top panel 1069mm high rebated all round including 12 x 12mm glazing beads on one side	No	59		
	Semi solid flush doors with 3,2mm standard hardboard covering on both sides hung to steel frames				
6	40mm Door 813 x 2032mm high	No	160		
	Carried to Collection			R	
	Section No. 3 Bill No. 5 Carpentry and Joinery				

Section No. 3				
Bill No. 5				
Carpentry and Joinery				
COLLECTION				
Total Brought Forward from Page No.	Page No 116 117 118		Amount	
Consider Formulate Commencer of Continue No. 0				
Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 5 Carpentry and Joinery		R		

BILL NO. 6 CEILINGS, PARTITIONSAND ACCESS FLOORING	
Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.	
Trade names	
Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description	
<u>Samples</u>	
Contractor to allow in the rates for the provision of samples where so required by the Principal Agent	
SUPPLEMENTARY PREAMBLES	
Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.	
<u>Descriptions</u>	
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete	
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere	
Carried to Collection R Section No. 3	
Bill No. 6 Ceilings, Partitions and Access Flooring	

1

Proprietary suspended ceilings			
Electric light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance shall be made accordingly for their support, inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing shall take cognisance thereof)			
"Rhino-Drywall" partition systems			
"Rhino-Drywall" partitions shall comprise 63,5mm top and bottom galvanised steel tracks with 63,5mm galvanised steel vertical studs at maximum 600mm centres, friction fitted or pop-riveted to the top and bottom tracks with similar additional verticalstuds as necessary at abutments, ends, etc and covered as described with wallboard screwed to studding with "Drywall" screws at maximum 220mm centres. Boards shall be butt jointed and finished with "Rhino" tape and "Readymix D" jointing compound allin accordance with the manufacturer's instructions, complete with flat section aluminium skirtings. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound			
CEILINGS, ETC			
Particle board:			
Particle board shall comply with the following specifications:			
SABS EN 317 Parts 1 to 7 for exterior, interior and flooring type particleboard			
"Aerolite" insulation			
50mm Insulation closely fitted and laid on top of brandering between roof timbers, etc m2	509		
NAILED UP CEILINGS			
Carried to Collection		R	
Section No. 3			
Bill No. 6 Ceilings, Partitions and Access Flooring			

Ì	4 mm "Everite Cledit" high density plain Present		1			1
	4 mm "Everite Cladit" high density plain Pressed Nutec-cement boards or equally approved with 32 x					
	10mm wrought softwood cover strip over joints					
2	Ceilings including 38 x 50 mm sawn softwood brandering at 400mm centres in one direction only.	m2	509			
3	Extra over ceiling for opening for 650 x 650mm trap door complete with trimmers, frame, cross branders, ceiling board, hinges, etc as described (Provisional	No	15			
	Rhino" gypsum plasterboard cornices					
4	70 x 75 mm Coved cornices	m	1,711			
	Carried to Collection			R		
	Section No. 3					+
	Bill No. 6 Ceilings, Partitions and Access Flooring					
	Comingo, i diddiono did Access i locinig					
		1		I	II	1

Section No. 3			
Bill No. 6			
Ceilings, Partitions and Access Flooring			
COLLECTION			
COLLECTION Total Brought Forward from Page No.	Page No 120 121 122		Amount
Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 6 Ceilings, Partitions and Access Flooring		R	

Item No			Quantity	Rate	Amount
	BILL NO. 7				
	IRONMONGERY				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	SUPPLEMENTARY PREAMBLES				
	Finishes to ironmongery				
	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				
	HINGES, BOLTS, ETC				
1	100 mm Brass hinge	No	320		
	LOCKS				
2	Two-lever CZ 69424955 lockset	No	160		
3	Three-lever CZ 69424955lockset	No	59		
	Carried to Collection Section No. 3			R	
	Bill No. 7 Ironmongery				

	SUNDRIES				
4	38mm Diameter rubber door stop.	No	219		
5	Door Holder	No	219		
	HANDLES				
6	Lever handles	Pairs	219.0		
	BATHROOM FITTINGS				
7	Single Toilet Roll Holder - Vitreous china - 204x160x90mm with plastic Spindle	No	58		
8	Single Soap Dish Holder - Vitreous china - 170x170x100mm with plastic Spindle	No	58		
9	Builders shower tray square - white (754354)	No	58		
	Carried to Co	ollection		R	
	Section No. 3 Bill No. 7				ŧ
	Ironmongery				

Section No. 3				
Bill No. 7				
Ironmongery				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	124			ļ
	125			ļ
Carried Forward to Summary of Section No. 3		R		
Section No. 3 Bill No. 7				
Ironmongery				
1	l .	1	II .	1

Item No		Quantity	Rate	Amount
	BILL NO. 8			
	METALWORK			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	<u>Trade names</u>			
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description			
	<u>Samples</u>			
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent			
	SUPPLEMENTARY PREAMBLES			
	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			
	<u>Descriptions</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			
	Carried to Collection		R	
	Section No. 3 Bill No. 8 Metalwork			

	NOTE: Pressed steel door frames shall be supplied with three 100mm steel washered brass butt hinges and frames for two leaved doors with three pairs of 100mm steel washered brass butt hinges Transomes for fanlights shall be fitted with a pair of 75mm steel washered butt hinges STEEL WELDED SCREENS, GATES, ETC Screens and gates				
1	Single gate 900 x 2000mm high of 50 x 6mm flat section outer frame and 25 x 25 x 3mm angle section inner frame welded to outer frame, filled in with "Mentis Flatex" type 352 expanded metal panel fixed all round to inner frame with 20 x 20 x 3mm anglesection fixing beads bolted on with and including 6mm diameter bolts at 500mm centres and fitted with a pair of suitable hinges welded to post and lockable sliding bolt with keep in gate post	No	3		
	GALVANISED PRESSED STEEL DOOR FRAMES 1,2mm Double rebated frames suitable for half brick walls				
2	Frame for door 813 x 2032mm high	No	160		
	1,6mm Double rebated frames suitable for one brick walls				
3	Frame for door 813 x 2032mm high	No	149		
	PRESSED STEEL TRANSFORMER ROOM DOORS AND FRAMES				
	Galvanised doors etc				
4	X panda meter room door 900 x 2400mm high with rebated frame suitable for one brick wall	No	1		
	Section No. 3 Bill No. 8 Metalwork			R	=

5	Allow a budgetary amount of R 255 000 (Two Hundred and Fifty five Thousand Rand) for restoration of galvanised raking, flat balustrades as per the Architects specification NATURAL ANODISED ALUMINIUM WINDOWS, DOORS ETC All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA. All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in		Item			
	place during construction. All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.					
	Natural anodised aluminium windows glazed with 6mm safety glass and plugged to brickwork:					
6	Window overall size 600 x 1200m high (W01)	No	4			
7	Window overall size 1200 x 600m high (W02)	No	54			
8	Window overall size 3000 x 600m high (W03)	No	2			
	NATURAL ANODISED ALUMINIUM LOUVRE UNITS					
	EPOXY POWDER COATED ALUMINIUM CLADDING					
9	Provide the amount of One Million and Fifty Thousand For the fabrication, and installation of cladding by an approved sub contractor		Item		1,050,000.0	0
	Carried to Collection			R		
	Section No. 3 Bill No. 8 Metalwork					=

Section No. 3				
Bill No. 8				
Metalwork				
COLLECTION				
Total Brought Forward from Page No.	Page No 127		Amount	
	128			
	129			
Carried Forward to Summary of Section No. 3		R		
Section No. 3 Bill No. 8				
Metalwork				

Item No		Quantity	Rate	Amount	
	BILL NO. 9				
	PLASTERING				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Samples</u>				
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent				
	GRANOLITHIC				
	Untinted granolithic, on concrete				
1	40mm Thick on floors and landings m2	2,804			
	INTERNAL PLASTER				
	Cement plaster on brickwork				
2	On walls m2	9,137			
3	On conrete slabs m2	2,804			
4	On sloping top of sills 1200mm wide	650			
	EXTERNAL PLASTER				
					_
	Carried to Collection		R		
	Section No. 3 Bill No. 9 Plastering				_

	Cement plaster on brickwork				
5	On walls	m2	2,103		
	<u>Sundries</u>				
6	255 mm wide raised plaster band and 12 mm projection from the plastered surface in cement plaster 1 : 3, over masonry or concrete surface.	m	644		
7	40 mm x 12 mm size deep weather drip nosing in cement mortar proportion 1 : 3.	m	120		
	Carried to Collection Section No. 3			R	
	Bill No. 9 Plastering				

Section No. 3			
Bill No. 9			
Plastering			
COLLECTION			
Total Brought Forward from Page No.	Page No 131 132		Amount
Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 9 Plastering		R	

Item No			Quantity	Rate	Amount
	BILL NO. 10	,			
	PLUMBING AND DRAINAGE (PROVISIONAL)				
	The tenderer is referred to the relevant Clauses in the Standard Preambles to All Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Samples</u>				
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent				
	RAINWATER DISPOSAL				
	uPVC gutters and rainwater pipes				
1	100mm Half-round roof gutters	m	146		
2	Extra over eaves gutter for stopped end	No	24		
3	Extra over eaves gutter for outlet for 75mm diameter pipe	No	32		
4	75mm Diameter rainwater pipes in continuous lengths	m	312		
5	Extra over rainwater pipe for eaves offset 750mm projection	No	24		
6	Extra over rainwater pipe for shoe	No	36		
	SANITARY FITTINGS				
	Carried to Collection			R	
	Section No. 3 Bill No. 10 Plumbing and Drainage			,	

1	Stainless steel sanitary fittings				
7	"Franke" Trendline SEB Grade 304 18/10 stainless steel single left hand end bowl drop-on sink, size 1050 x 535mm wide fitted to top of cabinet (cabinet elsewhere)	No	58		
	<u>"Vaal"</u>				
8	510 x 405mm "Hibiscus" (code 7050) white vitreous china rounded lavatory basin with one taphole supported on and incl. two bolts (code 84467Z0)	No	58		
9	White vitreous china "Daisy" semi-close coupled 90 degree outlet open rim washdown pan (code 7514000) and matching "Hibiscus" vandal proof 6 litre cistern (code 710511) complete with front flush push button,	No	58		
10	Vitreous China - 170x170x100mm with plastic spindle	No	58		
11	900 x 900mm Square- White Code TRY-TUB-TRAY-WH-011 acrylic shower tray with waste outlet, bedded in position	No	58		
	WASTE UNIONS, ETC				
12	32mm 301 CP waste union	No	116		
	TRAPS, ETC				
13	40mm Anti-vac trap	No	58		
14	40mm Flexi butyl rubber trap with reseal "P" trap 40x50mm Deep seal combination "P" or S trap	No	58		
15	40mm Rough brass shallow seal shower 'P' trap with FI outlet and chrome plated grating (code 373)	No	58		
	TAPS, VALVES, ETC				
	"Cobra"				
16	15mm MI-206-15 Metsi bib tap, chrome-plated. Includes: hot and cold indices, 1/2 BSP male inlet, and flow straightener for flow aesthetics.	No	116		
	Carried to Collection Section No. 3			R	
	Bill No. 10 Plumbing and Drainage				

17	15mm Code: FSK2W2ST-0GT0036 Stella sink mixer, wall-type, chrome. Includes: aerated swivel outlet, 1/2 BSP male inlets, and concealed connections.	No	58		
18	15mm Light Pattern 1/2 chromium plated overhead shower arm with 1/2 ball joint	No	58		
19	15mm Amazon concealed shower or bath mixer single lever 2 x G1/2 female inlet, G1/2 female outlet chrome.	No	219		
20	15mm Non-return valve	No	290		
21	22mm Non-return valve	No	116		
	SANITARY PLUMBING				
	uPVC pipes				
22	40mm Pipes	m	116		
23	50mm Pipes	m	383		
24	110mm Pipes	m	87		
	Extra over uPVC pipes for uPVC fittings				
25	40mm Adaptor	No	58		
26	50mm Adaptor	No	116		
27	40mm Bend	No	116		
28	50mm Bend	No	174		
29	110mm Bend	No	145		
30	110mm Pan connector	No	58		
31	110mm Access bend	No	116		
32	110mm 'GI two-way' vent valve	No	15		
	<u>Sundries</u>				
33	Testing waste pipe system	No	58		
	Carried to Collection			R	
	Section No. 3 Bill No. 10 Plumbing and Drainage				

	WATER SUPPLIES				
	Class O copper pipes				
34	15mm Pipes	m	290		
35	22mm Pipes	No	1,044		
	Extra over class O copper pipes for capillary fittings				
36	15mm Fittings	No	232		
37	22mm Fittings	No	696		
	Extra over class O copper pipes for conex compression fittings				
38	15mm Fittings	No	58		
39	22mm Fittings	No	174		
	Copper overflow and service pipes				
40	15mm Service pipes 350 mm girth	No	116		
41	20mm Service pipes 350mm girth	No	116		
	<u>TESTING</u>				
42	Testing water pipe system		Item		
	ELECTRIC WATER HEATERS				
	Geyser mounted horizontally on roof timbers				
43	100 Litre geyser	No	58		
44	0.6mm Galvanised sheet iron tray size 1350 x 750mm with rivetted and soldered seams and joints turned up all round to form kerb 75mm high with beaded edge,including outlet with nozzle for 50mm diameter				
	overflow pipe and fix in position	No	58		
45	40 mm HDPE black polythene overflow pipe fixed to timber roof trusses.	m	290		
	Carried to Collection			R	
	Section No. 3 Bill No. 10 Plumbing and Drainage				

46	38mm Sawn softwood boarding for geyser platform formed of 38 x 228mm boards butt-jointed and nailed to truss tie beams	m2	56		
	Carried to Collection			R	
	Section No. 3 Bill No. 10 Plumbing and Drainage				

Section No. 3				
Bill No. 10				
Plumbing and Drainage				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	134			
	135			
	136			
	137			
	138			
Coming Command to Comment of Continue No. C				
Carried Forward to Summary of Section No. 3 Section No. 3		R		
Bill No. 10 Plumbing and Drainage				

Item No			Quantity	Rate	Amount
	BILL NO. 11				
	<u>GLAZING</u>				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Samples</u>				
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent				
	GLAZING				
	6.38mm Clear laminated safety glass fixed with aluminium beads to window frames				
1	Panes exceeding 0,1m2 and not exceeding 0.5m2	m2	155		
	6.38mm Obscure laminated safety glass fixed with aluminium beads to window frames				
2	Panes exceeding 0,1m2 and not exceeding 0.5m2	m2	105		
	MIRRORS				
	6mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork				
3	Mirror 450 x 600mm x 6mm high with four screws	No	58		
	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 11 Glazing			R	

Item No			Quantity	Rate	Amount	
	BILL NO. 12	Ï				
	<u>TILING</u>					
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.					
	<u>Trade names</u>					
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description					
	<u>Samples</u>					
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent					
	SUPPLEMENTARY PREAMBLES					
	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					
	WALL TILING					
	152 x 152 x 5mm White glazed ceramic tiles					
1	On walls	m2	329			
2	In splashbacks	m2	58			
	Comind Formand to Community (Co. 1)					_
	Carried Forward to Summary of Section No. 3 Section No. 3 Bill No. 12 Tiling			R		=

Item No			Quantity	Rate	Amount
	BILL NO. 13				
	PAINTWORK				
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.				
	<u>Trade names</u>				
	Wherever trade names are specified in clauses, headings or item descriptions in this bill, the words 'or equal and approved' are deemed to be included in the relevant clause, heading or item description				
	<u>Samples</u>				
	Contractor to allow in the rates for the provision of samples where so required by the Principal Agent				
	SUPPLEMENTARY PREAMBLES				
	Descriptions of paintwork shall be deemed to include for all cutting in				
	PAINTWORK, ETC TO NEW WORK ON				
	ON FLOATED PLASTER				
	Prepare,stop and apply two filler coat of paint 100- M370-2800 or equal approved and finish with two coats interior emulsion paint				
1	On internal walls	m2	9,137		
2	On concrete slabs	m2	2,804		
3	On sloping top of sils 1200mm wide	m	295		
	Carried to Collection			R	
	Section No. 3 Bill No. 13 Painting				

	Prepare,stop and apply two filler coat of paint 100- M370-2800 or equal approved and finish with two coats interior emulsion paint				
4	On external walls	m2	2,103		
	ON PLASTER BOARD				
	One coat Fillercoat' thinned 15% with 'An Overcoating time of 4 hours' and Finish with two coats Pearlglo Water Clean-up (D190-LINE)' paint or equally approved				
5	On ceilings	m2	769		
	ON CONCRETE FLOORS				
	Internal - A coloured, cement-based, self-levelling floor covering for application onto wood floated screeds. To produce a 2mm smooth, decorative layer that is unaffected by rising damp. For interior use only.All to manufacturers specification. In accordance with SANS 10109, SANS 50197, SANS 1083, SANS 50197				
6	On floors	m2	828		
	ON METAL SURFACES				
	One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel				
7	Door frames	m2	399		
	Carried to Collection			R	
	Section No. 3 Bill No. 13 Painting				

Section No. 3			
Bill No. 13			
Painting			
COLLECTION			
	Page No		Amount
Total Brought Forward from Page No.	142		
	143		
Carried Forward to Summary of Section No. 3 Section No. 3		R	
Bill No. 13 Painting			

	SECTION SUMMARY - Building Works			
Bill No		Page No		Amount
1	Concrete, Formwork and Reinforcement	104		
2	Masonry	108		
3	Waterproofing	112		
4	Roof Coverings	115		
5	Carpentry and Joinery	119		
6	Ceilings, Partitions and Access Flooring	123		
7	Ironmongery	126		
8	Metalwork	130		
9	Plastering	133		
10	Plumbing and Drainage	139		
11	Glazing	140		
12	Tiling	141		
13	Painting	144		
	Carried to Final Summary		R	
	Section No. 3			
	ı		I	ı I

tem No		Quantity	Rate	Amount
NO	BILL NO. 1			
	PRELIMINARY AND GENERAL			
	NOTES			
	i) Preliminaries for the Project should be priced with Bill no 1, Preliminaries. If in the event of the electrical contractor being a sub-contractor to the main contractor, made with this section for the pricing of the provision is preliminaries applicable to this portion of the contract.			
	ii) It should however be noted that the amount for preliminaries priced in this section will be a fixed amount and will under no circumstances be adjusted.			
	SECTION A: GENERAL CONDITIONS OF			
	CONTRACT			
1	A1 General(clause 1) F: V: T:	Item		
2	A2 Basis of contract (clause 2) F: V: T:	Item		
3	A3 Employer's Agent (clause 3) F: V: T:	14		
	':	Item		
4	A4 Contrators general obligations (clause 4) F: V:			
	T:	Item		
	Carried to Collection		R	
	Section No. 4 Bill No. 1			
	Preliminaries and General			

5	A5 Time and related matters (clause 5) - As referred to in the Contract Data under Special Condition of Contract. The Contract Period shall be deemed to include all Non Working Days, Special Non - Working Days and the year-end Builders Annual Industry Holiday Periods. F: V: T: T:	ltem		
6	A6 Payment and related matters (clause 6)			
	F: V: T:	Item		
7	Δ7 Quality and related matters (clause 7)			
	F: V: T:	Item		
8	A8 Risks and related matters (clause 8)			
	A8 Risks and related matters (clause 8) F: V: T:	Item		
9	A9 Terminations of contract (clause 9) F: V: T:			
	T:	Item		
10	A10 Claims and disputes (clause 10) F: V: T:			
	T:	Item		
	SECTION B: SANS 1921-1:2004 (Edition 1): CONSTRUCTION AND MANAGEMENT REQUIREMENTS FOR WORKS CONTRACTS: PART 1			
	Carried to Collection		R	
	Section No. 4 Bill No. 1 Preliminaries and General			

Section No. 4				
Bill No. 1				
Preliminaries and General				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 146 147		Amount	
Carried Forward to Summary of Section No. 4 Section No. 4 Bill No. 1 Preliminaries and General		R		

Item No		Quantity	Rate	Amount	
1	BILL NO. 2				
	ELECTRICAL INSTALLATION				
	The tenderer is referred to the relevant Clauses in the Standard Preambles to All Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	NEW DISTRIBUTION BOARDS				
	Supply and installation and commissioning of Distribution Boards as specified including making off all wire connections (flush mounted board not larger than 1500mm x 1500mm) Note: External wiring, conduit, armoured cable and terminations given elsewhere				
	All Distribution Boards shall comply fully with the Standard Specification Part A and shall comply fully with SANS 10142-1 with latest Ammendments				
1	Distribution Board Supply No.	72			
2	Distribution Board Install	72			
	PREPAID METERS				
	Apply for installation of prepaid meters				
3	60A single phase prepaid meters Supply No.	72			
4	60A single phase prepaid meters Install	72			
	<u>LIGHTS</u>				
	Supply and Install isolators, position will be on drawings, inside				
5	RLCF/ES A60-E27-15W-4K LAMP Equal or equivalent Supply	369			
	Carried to Collection Section No. 4 Bill No. 2 Electrical Installation		R		_
	Lieutivai ilistaliativii				

6	RLCF/ES A60-E27-15W-4K LAMP Equal or equivalent Install	No	369		
	TEST AND CERTIFICATE OF COMPLIANCE:				
	The Contractor shal issue a certificate of Compliance for each distribution board and associated installation				
7	New db	No	72		
	CONDUIT TERMINATIONS:				
	PVC conduit terminations to distribution boards including adaptor and locknut				
8	20mm	m	3,468		
9	32mm	m	10		
10	25mm	m	10		
	CIRCUIT TERMINATIONS:				
	Terminations of circuit into distribution boardsincluding lugs, cable straps, etc. (Cable terminations measured elsewhere)				
11	single phase + E up to 6mm²	No	3,468		
	PVC CONDUIT INSTALLATION				
	Conduit:				
	Supply and Installation of rigid PVC conduits including fixings, couplings, bends, draw boxes, waste, etc. Installed on surface on wall, on ceiling void, chased in, or cast into concrete				
12	20 mm PVC	m	8,500		
	CONDUIT BOXES & TERMINATIONS:				
	Terminate and connect conduit boxes without covers installed on surface in ceiling void, chased in or cast into brickwork or in concrete				
					\vdash
	Section No. 4			R	\vdash
	Bill No. 2 Electrical Installation				

13	20 mm PVC round 1 - 4 way	No	150			
14	50 x 100mm flush box	No	85			
15	100 x 100mm flush box	No	434			
	CONDUCTORS:					
	PVC insulated copper conductors drawn into conduit, wiring trunking or power skirting conduit, wiring trunking or power skirting					
16	2.5 mm² PVC	m	28,500			
17	1,6mm draw wire	m	3,468			
	SWITCHED SOCKET OUTLETS:					
	Flush mounted socket outlets complete with cover plate but excluding wall boxes					
18	16A 3 pin flush sso	No	558			
19	30A isolators	No	60			
	SWITCHED SOCKET OUTLETS:					
	Flush mounted complete with cover plates but excluding wall outlet box.					
20	16A 1 lever 1 way	No	285			
21	16A 2 lever sw.	No	48			
	Carried to Collection			R		
	Section No. 4 Bill No. 2					
	Electrical Installation					
		ı	l	l	I	

Section No. 4				
Bill No. 2				
Electrical Installation				
COLLECTION				
Total Brought Forward from Page No.	Page No 149 150 151		Amount	
Carried Forward to Summary of Section No. 4		R		
Section No. 4 Bill No. 2 Electrical Installation				

Item No			Quantity	Rate	Amount
1	BILL NO. 3				
	RETICULATION				
	The tenderer is referred to the relevant Clauses in the Standard Preambles to All Trades and to the Supplementary Preambles which are incorporated at the front of these Bills of Quantities				
	LUMINAIRES:				
	Take delivery, store, protect, erect, fix, connect and lamp the following luminaires, outside lighting				
1	RLCF/ES A60-E27-15W-4K LAMP Equal or equivalent	No	58		
	LOW VOLTAGE CABLE & INSTALLATION				
	Supply, delivery and installation of 600/1100V PVC/SWA/ECC/PVC Copper cables as specified, installed in trench or on surface or on cable tray or pulled through sleeves (excluding cost to supply and install tray)				
2	185 mm² x 4 core	m	45		
3	25 mm² x 2 core	m	3,152		
4	16 mm² x 4 core	m	2,665		
	LOW VOLTAGE CABLE TERMINATIONS:				
	Terminations of Low Voltage PVC/SWA/PVC cable complete with glands, shrouds, lugs and connection				
5	185 mm² x 4 core	No	2		
6	25 mm² x 2 core	No	18		
7	16 mm² x 4 core	No	56		
	Occupied to Ocillo 12				
	Section No. 4 Bill No. 3 Reticulation			R	
					1

Ī	TRENCHING FOR CABLES:				
	Trenching for PVC/SWA/PVC/ cable as per the specificattion				
8	50 mm PVC	m	165		
	ELECTRICAL CONNECTION:				
	The Contractor shal issue a certificate of Compliance for each distribution board and associated installation				
9	Provide the amount of Seven Hundred and Fifty Thousand For electrical upgrade		Item		750,500.00
10	Profit		Item		75,500.00
11	Attendance		Item		37,500.00
	LIGHTNING PROTECTION:				
12	Provide the amount of Seven Hundred Fifty Thousand For Protection System		Item		750,000.00
	COMMISSIONING AND TESTING:				
13	Commissioning and Testing of the entire new Installation, including the Provision of a Compliance Certificate and O & M Manuals		Item		55,000.00
	GUARANTEE AND MAINTENANCE:				
14	Guarantee and maintenance for the complete installation of the Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS (12) after date of completion and handover		Item		75,000.00
	AS BUILT DRAWINGS:				
15	Provision for 2 sets of 'As Built Drawings'		Item		20,000.00
	MANHOLES				
16	Build a 600mm x 600mm	No	5		
	Section No. 4 Bill No. 3 Reticulation			R	

	CABLE TRAY				
17	The contractor to supply and install	m	250		
					_
	Carried to Collection			R	_
	Section No. 4 Bill No. 3 Reticulation				

No. 4			
3			
tion			
CTION			
ought Forward from Page No.	Page No 153 154 155		Amount
Carried Forward to Summary of Section No. 4 No. 4 3 ation		R	

	SECTION SUMMARY - Electrical Works				
Bill No		Page No		Amount	
1	Preliminaries and General	148			
2	Electrical Installation	152			
3	Reticulation	156			
	Carried to Final Summary		R		
	Section No. 4				

Item No		Quantity	Rate	Amount
1	BILL NO 1			
	EXTERNAL WORKS			
	PREAMBLES			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	SUPPLEMENTARY PREAMBLES			
	<u>Descriptions</u>			
	For full descriptions and supplementary preambles applicable to this section, see also previous bills			
	PREAMBLES			
	Tenderers are referred to the relevant clauses in the Model Preambles for Trades (Latest Edition) as published by the Association of South African Quantity Surveyors and to the Supplementary Preambles which are incorporated in these Bills of Quantities before pricing this schedule.			
	<u>Descriptions</u>			
	For full descriptions and supplementary preambles applicable to this section, see also previous bills			
	PREAMBLES			
	Excavation in earth not exceeding 2m deep			
	For full descriptions and supplementary preambles applicable to this section, see also previous bills			
	Carried to Collection Section No. 5 Bill No. 1 External works		R	
	Section No. 5 Bill No. 1		R	

Nature of ground				
A soil investigation will be carried out on site by the engineer, and the report will be annexed to these bills of quantities. Descriptions of all excavations shall be deemed to include all ground conditions classified as "earth" described in the annexed report and where conditions of a more difficult character are indicated these are separately measured				
Carting away of excavated material				
Description of carting away of excavated material shall deemed to include loading of excavated material onto trucks directly from the excavations, or alternatively, from stock piles situated on the building site.				
Concrete pipes				
Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings				
u PVC pipes and fittings				
Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings Soil, waste and vent pipes and fittings shall be solvent weld jointed				
u PVC pressure pipes and fittings				
Pipes for water supply shall be of the class stated Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose socket fittings Pipes of 50mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bens shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints with solvent welded uPVC loose socket fittings				
Exposed concrete surfaces				
Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster				
Carried to Collection Section No. 5		R		
Bill No. 1 External works				
			1	ĺ

Executions]			
<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"				
Laying, backfilling, bedding, etc. of pipes				
Pipes shall be laid and bedded and trenches shall be				
carefully backfilled in accordance with manufacturers' instructions The selection of the imported "borrow pit"				
pipe bending material for class or flexible pipe beddings				
shall be done by the contractor, and all the tendered rates for the imported material shall be deemed to				
include for the necessary selection of material. The				
selection of the imported "borrow pit" pipe bending material for class or flexible pipe beddings shall be done				
by the contractor, and all the tendered rates for the				
imported material shall be deemed to include for the necessary selection of material. Where no				
manufacturers' instructions exist, pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the				
following: SABS 1200 L: Medium- pressure pipelines LD				
: Sewers LE : Stormwater drainage Pipe trenches, etc. shall be backfilled in accordance with clauses3, 5.5, 5.6,				
5.7 and 7 of SABS 1200 LB : Bedding (Pipes) Unless				
otherwise described, bedding of rigid pipes shall be class B bedding Unless otherwise described, bedding of				
rigid pipes shall be class B bedding				
Densyl petrolatum anti-				
corrosion tape as manufactured by Denso SA (Pty)				
Ltd or equally approved				
Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied with minimum				
15mm lap per spiral unless otherwise described				
Couplings and fittings to pipes shall be taped in strict accordance with the manufacturers instructions,				
including all mastic tape "Layflat" sheeting, securing of				
same, etc. Unless otherwise described, bedding of rigid pipes shall be class B bedding				
ALTERATIONS				
REMOVAL OF EXISTING WORK				
				_
Carried to Collection		R		_
Section No. 5 Bill No. 1				
External works				

	Inspect, disconnect including the discommissioning of the existing in the hostel				
1	150mm thick mesh reinforced concrete surface beds including all the underground foundation		Item		
	Taking out and removing concrete apron or paving kerbs and surfacing				
2	Break up and cart away concrete apron or paving and lay works 150mm thick bedding including concrete kerbs	m2	216		
3	Precast concrete vertical kerbs with 150 x 150mm cast in-situ concrete apron along sides of existing road including necessary excavation, backfilling and compaction	m	18		
	STORM WATER DRAINAGE				
	EXCAVATION, FILLINGS, ETC				
	Excavate in all materials for pipe tranches and use for backfill, compact, and dispose of surplus material.				
4	Excavation in earth not exceeding 1m deep for pipe tranches	m3	48		
5	Excavation in earth exceeding 1m not exceeding 2m deep for pipe tranches	0	40		
		m3	12		
	Extra over trench and hole excavation in earth for excavation in				
6	Soft rock	m3	6		
7	Hard rock	m3	3		
	Extra over all excavations for carting away				
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	32		
	FILLING ETC				
					_
	Carried to Collection			R	
	Section No. 5 Bill No. 1				
	External works				

	Earth filling supplied by the contractor, compacted]
	to 93% Mod AASHTO density				
9	Backfilling to trenches, holes, etc	m3	28		
10	Selected granular filling in bedding under and filling around the pipes	m3	32		
	Unreinforced concrete cast against excavated surfaces				
11	Unreinforced concrete bedding under pipes	m3	22		
	STORM WATER DRAINAGE				
	uPVC drainage pipes				
	Supply, lay, bed and test stormwater upvc pipe				
12	200mm Pipes laid in trenches (trenches elsewhere)	m	80		
13	200mm Pipes exceeding 1m not exceeding 2m laid in trenches (trenches elsewhere)	m	20		
14	200mm Bends	No	16		
15	200mm Junctions	No	20		
	<u>V-DRAINS</u>				
	Restricted excavation in earth not exceeding 2m deep in pick able ground				
16	Excavation not exceeding 2m deep for v-drains and stockpile	m3	77		
17	Rip & re-compact 150mm in-situ layer v-drains to 95% Mod.AASHTO	m3	255		
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	25Mpa /19mm concrete				
18	V-Drains (fitted with 250micron polyethlene underlay sheeting)	m3	33		
	Carried to Collection			R	
	Section No. 5 Bill No. 1 External works				

	Unformed surface finishes				
19	V-Drains	m2	255		
	Smooth formwork to				
20	Vertical sided of drain	m2	51		
	MANHOLE-STORMWATER INLET				
	Bricks stormwater inlet including cast iron dished grating and frame				
21	Manhole 1370mm long x 1370mm wide x 2000mm deep overall to be constructed according the metro standards	No	5		
22	450 x 450mm heave duty cast iron dished grating and frame	No	5		
	SOIL DRAINAGE				
	uPVC drainage pipes				
	Heavy duty (class 34) PVC soil drainage pipes including all excavations, backfillimg, carting away of excees material and bedding				
23	160mm Pipes laid in and including trenches not exceeding 1m deep	m	120		
24	160mm Pipes laid in and including trenches exceeding 1m not exceeding 2m deep	m	60		
25	160mm Bends	No	30		
26	160mm Access bends	No	20		
27	160mm Junctions	No	35		
28	160mm Access junctions	No	60		
29	160mm Straight connectors	No	45		
	Carried to Collection			R	
	Section No. 5 Bill No. 1 External works			K	

30	160mm Inspection eye including covers	No	20			
	Pipework incased in concrete					
31	160mm soil pipes encased in and including concrete in trenches not exceeding 1m deep	m	30			
32	160mm soil pipes encased in and including concrete in trenches exceeding 1m not exceeding 2m deep	m	15			
	uPVC gulleys					
33	160mm Gulley with grease trap not exceeding 500mm deep	No	15			
	MANHOLES					
	Precast concrete inspection chambers including precast concrete cover slabs and channels in benching					
34	1130mm Diameter x 2000mm deep overall pre cast concrete manhole rings to be constructed according to detail refer to the sewer manhole drawing number KZ/129/01	No	6			
		NO	O			
35	Circular light duty frame and Cover 1130mm in diameter x 100mm thick as per details to the sewer manhole drawing number KZ/129/01	No	6			
	ENGINEEDING WORKING					
	ENGINEERING WORKING					
	Breaking up and removing					
36	150mm thick mesh reinforced concrete surface beds including all the underground foundation		Item			
	EXCAVATION, FILLING, ETC					
	Excavation in earth not exceeding 2m deep					
37	Reduced levels under floors	m3	1,077			
	WORKING SPACE EXCAVATIONS					
	Carried to Collection			R		<u> </u>
	Section No. 5 Bill No. 1					
	External works					
		l	ļ		l	I

earth not exceeding 500mm deep for working space, including backfilling compacted to 93% Mod				
AASHTO density For placing and removing formwork to walls etc, 300mm away from excavated face	m2	224		
EXCAVATIONS IN STRATA OF A MORE DIFFICULT CHARACTER				
Extra over trench and hole excavations in earth for excavations in				
Soft rock	m3	431		
Hard rock	m3	215		
Extra over all excavations for spreading and levelling				
Surplus material from excavations and/or stock piles on site as directed	m3	1,170		
Risk of collapse of excavations				
Sides of trench and hole excavations not exceeding 1,5m deep	m2	244		
Keeping excavations free of water				
Keeping excavations free of all water		Item		
Earth filling of G7 material supplied by the contractor compacted to 98% Mod. AASHTO density				
Under floors, etc	m3	846		
Earth filling of G5 material supplied by the contractor compacted to 98% Mod. AASHTO density				
Under floors, etc	m3	231		
Gabions filled with broken stone				
150mm 250mm Broken stone filled including preparing ground surface under surface bed	m3	135		
Carried to Collection			R	
Section No. 5 Bill No. 1 External works				

	Coarse river sand filling supplied by the contractor]
47	Under floors etc	m3	77		
	Compaction of surfaces				
48	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASTHO density	m2	769		
	Soil poisoning				
49	Soil insecticide under floors, paving, etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	769		
50	Soil insecticide to bottoms of trenches, holes, etc	m2	144		
	MASONRY				
	FOUNDATIONS				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class 1 mortar				
51	One brick walls	m2	168		
	Bagging of 1:3 cement and sand mixture				
52	On brick walls	m2	168		
	Joint forming material in movement joints				
53	12mm Fibre board built in vertically between brick skins	m2	180		
	Brickwork reinforcement				
54	150mm Wide reinforcement built in horizontally	m	3,400		
55	75mm Wide reinforcement built in horizontally	m	920		
	Galvanised hoop iron cramps, ties, etc				
56	3 x 30mm Wall tie 375mm long with one end cast into concrete and other end built into brickwork	No	220		
	Carried to Collection			R	
	Section No. 5 Bill No. 1 External works				

57 229 x 76mm Clay vermin proof air brick No FACE BRICKWORK Face bricks pointed with recessed horizontal and vertical joints 58 Extra over brickwork in NFX bricks for face brickwork m2 168 59 Fair cutting and fitting around pipe not exceeding 10mm diameter No Builders Sundries 60 Provide the amount of Two Hundred Fifty Thousand For Builders Sundries Item 250,000.00 Carried to Collection Section No. 5 Bill No. 1 External works		Air bricks etc				
Face bricks pointed with recessed horizontal and vertical joints Extra over brickwork in NFX bricks for face brickwork m2 168 Fair cutting and fitting around pipe not exceeding 100mm diameter No 125 Builders Sundries Provide the amount of Two Hundred Fifty Thousand For Builders Sundries Item 250,000,00 Carried to Collection R Section No. 5 Bill No. 1	57	229 x 76mm Clay vermin proof air brick	No	240		
Extra over brickwork in NFX bricks for face brickwork m2 168 Fair cutting and fitting around pipe not exceeding 100mm diameter Builders Sundries Frovide the amount of Two Hundred Fifty Thousand For Builders Sundries Item 250,000.00 Carried to Collection R Section No. 5 Bill No. 1		FACE BRICKWORK				
Fair cutting and fitting around pipe not exceeding 100mm diameter Builders Sundries Provide the amount of Two Hundred Fifty Thousand For Builders Sundries Item 250,000.00 Carried to Collection R Section No. 5 Bill No. 1		Face bricks pointed with recessed horizontal and vertical joints				
100mm diameter No 125 Builders Sundries Provide the amount of Two Hundred Fifty Thousand For Builders Sundries Item 250,000.00 Carried to Collection R Section No. 5 Bill No. 1	58	Extra over brickwork in NFX bricks for face brickwork	m2	168		
Provide the amount of Two Hundred Fifty Thousand For Builders Sundries Item 250,000,00	59	Fair cutting and fitting around pipe not exceeding 100mm diameter	No	125		
Builders Sundries Item 250,000,00 Carried to Collection R Section No. 5 Bill No. 1		Builders Sundries				
Section No. 5 Bill No. 1	60	Provide the amount of Two Hundred Fifty Thousand For Builders Sundries		Item		250,000.00
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Section No. 5 Bill No. 1						
Bill No. 1		Carried to Collection	n		R	
External works		Bill No. 1				
		External works				

Section No. 5				
Bill No. 1				
External works				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	158			
	159			
	160			
	161			
	162			
	163			
	164			
	165			
	166			
	167			
Carried to Final Summary		R		
Section No. 5				
Bill No. 1 External works				

	FINAL SUMMARY			
Section No		Page No		Amount
1	Preliminaries	94		
2	Alteration	100		
3	Building Works	145		
4	Electrical Works	157		
5	External works	168		
	Sub-total		R	
	Allow a contingency amount of R550,000.00 (Five Hundred and Fifty Thousand) to be used as directed by the project manager.		R	550,000.00
	Sub Total Excluding VAT		R	
	ADD VAT @ 15%		R	
	Carried to Tender		R	
	Carried to Form of Tender		R	
		İ	ı	ı