

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES NOTES</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 190</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>NOTES</u></p> <p>i) The agreement is based on the JBCC Principal Building Agreement (version 4.1). The additions, deletions and alterations to the JBCC PBA and the <i>Principal Building Agreement: Contract Data</i> and these documents have been incorporated in the Contract section of this document. The tenderer is deemed to have referred to these documents for the full and meaning of each clause. The clauses are referred to by the number and heading only. Where standard clauses or options are not applicable to the contract such notifications or corrections are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p> <p>ii) The Preliminaries for use with the JBCC Series 2000 Preliminaries prepared by the Joint Building Contracts Committee, edition code 2103 March 2005 and shall be deemed to be incorporated herein</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries and General</p>		R	

	Brought Forward		R	
	<p>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</p> <p>iv) Where standard clause or alternatives are not entirely applicable to this contract such modification, corrections or supplements as will apply are given under each relevant clause heading</p> <p>v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable")</p> <p>vi) If Alternative A as set out in clause B10.3 hereinafter is to be used for the 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.</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p> <p><u>SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT - (Edition 4.1, March 2005)</u></p> <p><u>DEFINITIONS AND INTERPRETATION (A1)</u></p> <p>1/1/1 Clause 1.0</p> <p>F:..... V:..... T:.....</p>	Item		
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	Brought Forward		R	
	<u>OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS (A2)</u>			
1/1/2	Clause 2.0 F:..... V:..... T:.....	Item		
	<u>DOCUMENTS (A3)</u>			
1/1/3	Clause 3.0 F:..... V:..... T:.....	Item		
	<u>DESIGN RESPOSIBILITY (A4)</u>			
1/1/4	Clause 4.0 F:..... V:..... T:.....	Item		
	<u>EMPLOYERS AGENTS (A5)</u>			
1/1/5	Clause 5.0 F:..... V:..... T:.....	Item		
	<u>SITE REPRESENTATIVE (A6)</u>			
1/1/6	Clause 6.0 F:..... V:..... T:.....	Item		
	<u>COMPLIANCE WITH LAWS AND REGULATIONS (A7)</u>			
1/1/7	Clause 7.0 F:..... V:..... T:.....	Item		
	<u>INSURANCE AND SECURITY</u>			
	Carried Forward		R	
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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

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	Brought Forward		R	
	<u>WORKS RISK (A8)</u>			
1/1/8	Clause 8.0			
	F:..... V:..... T:.....	Item		
	<u>INDEMNITIES (A9)</u>			
1/1/9	Clause 9.0			
	F:..... V:..... T:.....	Item		
	<u>WORKS INSURANCES (A10)</u>			
1/1/10	Clause 10.0			
	F:..... V:..... T:.....	Item		
	<u>LIABILITY INSURANCES (A11)</u>			
1/1/11	Clause 11.0			
	F:..... V:..... T:.....	Item		
	<u>EFFECTING INSURANCES (A12)</u>			
1/1/12	Clause 12.0			
	F:..... V:..... T:.....	Item		
	<u>NO CLAUSE (A13)</u>			
1/1/13	Clause 13.0			
	F:..... V:..... T:.....	Item		
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		Brought Forward		R	
		<u>SECURITY (A14)</u>			
1/1/14	Clause 14.0				
	F:..... V:.....		Item		
	T:.....				
		<u>EXECUTION</u>			
		<u>PREPARATION FOR AND EXECUTION OF THE WORKS (A15)</u>			
1/1/15	Clause 15.0				
	F:..... V:.....		Item		
	T:.....				
		<u>ACCESS TO THE WORKS (A13)</u>			
1/1/16	Clause 16.0				
	F:..... V:.....		Item		
	T:.....				
		<u>CONTRACT INSTRUCTION (A17)</u>			
1/1/17	Clause 17.0				
	F:..... V:.....		Item		
	T:.....				
		<u>SETTING OUT OF THE WORKS (A18)</u>			
1/1/18	Clause 18.0				
	F:..... V:.....		Item		
	T:.....				
		<u>ASSIGNMENT (A19)</u>			
1/1/19	Clause 19.0				
	F:..... V:.....		Item		
	T:.....				
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EMIS NUMBER: 600100234

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	Brought Forward		R	
	<u>NOMINATED SUBCONTRACTORS (A20)</u>			
1/1/20	Clause 20.0			
	F:..... V:..... T:.....	Item		
	<u>SELECTED SUBCONTRACTORS (A21)</u>			
1/1/21	Clause 21.0			
	F:..... V:..... T:.....	Item		
	<u>EMPLOYERS DIRECT CONTRACTORS (A22)</u>			
1/1/22	Clause 22.0			
	F:..... V:..... T:.....	Item		
	<u>CONTRACTORS DOMESTIC SUBCONTRACTORS (A23)</u>			
1/1/23	Clause 23.0			
	F:..... V:..... T:.....	Item		
	<u>COMPLETION</u>			
	<u>PRACTICAL COMPLETION (A24)</u>			
1/1/24	Clause 24.0			
	Contract Period: The period commencing on actual Site hand over date to the Contractor and ending on the date of Practical Completion or authorised extensions thereto including all Annual Industrial Holiday Periods, Sundays and Public Holidays.			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>INTERIM PAYMENT TO THE CONTRACTOR (A31)</u>			
1/1/31	Clause 31.0			
	F:..... V:..... T:.....	Item		
	<u>ADJUSTMENT OF THE CONTRACT VALUE (A32)</u>			
1/1/32	Clause 32.0			
	F:..... V:..... T:.....	Item		
	<u>RECOVERY OF EXPENSE AND/OR LOSS (A33)</u>			
1/1/33	Clause 33.0			
	F:..... V:..... T:.....	Item		
	<u>FINAL ACCOUNT AND FINAL PAYMENT (A34)</u>			
1/1/34	Clause 34.0			
	F:..... V:..... T:.....	Item		
	<u>PAYMENT TO OTHER PARTIES (A35)</u>			
1/1/35	Clause 35.0			
	F:..... V:..... T:.....	Item		
	<u>CANCELLATION</u>			
	<u>CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT (A36)</u>			
1/1/36	Clause 36.0			
	F:..... V:..... T:.....	Item		
	Carried Forward		R	
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	Brought Forward		R	
	<u>CANCELLATION BY EMPLOYER - LOSS AND DAMAGE (A37)</u>			
1/1/37	Clause 37.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT (A38)</u>			
1/1/38	Clause 38.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION - CESSATION OF THE WORKS (A39)</u>			
1/1/39	Clause 39.0 F:..... V:..... T:.....	Item		
	<u>CANCELLATION - CESSATION OF THE WORKS (A39)</u>			
1/1/40	Clause 39.0 F:..... V:..... T:.....	Item		
	<u>DISPUTE</u>			
	<u>SETTLEMENT OF DISAGREEMENTS AND DISPUTES (A40)</u>			
1/1/41	Clause 40.0 F:..... V:..... T:.....	Item		
	<u>SUBSTITUTE PROVISIONS</u>			
	Carried Forward		R	
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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

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	Brought Forward		R	
	<u>INSURANCES</u>			
1/1/47	Contract works insurance to be effected by: Contractor For the amount of: The Contract Sum plus 20% with deductible of R20 000.00 Notwithstanding the provisions of Clause 41.3.2, the first amount deductible will be for the Contractor's account SASRIA insurance required: F:..... V:..... T:.....	Item		
1/1/48	Public liability insurance to be effected by Contractor For the amount of: R 10 000 000.00 With a deductible of: R 10 000.00 per claim F:..... V:..... T:.....	Item		
	<u>DOCUMENT</u> Waivers of contractors lien is required: Yes Number of construction document copies to be supplied free of charge: 3 Number of days for submission of priced documents: TBA Notwithstanding the provisions of the above clause, no payments will be certified unless the priced documents are agreed with the Quantity Surveyors. JBCC Engineering General Conditions are to be included in the documents: No Alternative if contract value is not adjusted using Contract Price Adjustment Provision: N/A Tender Price is requested for Fixed Rates.			
	Carried Forward		R	
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	Brought Forward		R	
	<u>SECTION B: PRELIMINARIES</u>			
	<u>Definition and interpretation (B1)</u>			
1/1/49	Definition and interpretation (B1.1 - B1.6.5) F:..... V:..... T:.....	Item		
	<u>Documents (B2)</u>			
1/1/50	Checking of documents (B2.1) F:..... V:..... T:.....	Item		
1/1/51	These bills of quantities contain pages and annexures as indexed on the flyleaf The items in these bills of quantities are to be read and priced in conjunction with the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 2008 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained. F:..... V:..... T:.....	Item		
1/1/52	Provisional bills of quantities (B2.2) F:..... V:..... T:.....	Item		
1/1/53	Availability of construction documentation for contracts based on provisional bills of quantities (B2.3) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/54	Interests of agents (B2.4) F:..... V:..... T:.....	Item		
1/1/55	Priced documents (B2.5) F:..... V:..... T:.....	Item		
1/1/56	Tender submission (B2.6) F:..... V:..... T:.....	Item		
1/1/57	Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 days from the closing date of tenders F:..... V:..... T:.....	Item		
	<u>The site (B3)</u>			
1/1/58	Defined works area (B3.1) F:..... V:..... T:.....	Item		
1/1/59	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent at the official site briefing meeting. Site Meeting Date: TBC The meeting will be held at: TBC Tenderers are advise to arrive at least one hour earlier for the briefing meeting in order to avoid delays related to locating the venue. F:..... V:..... T:.....	Item		
	Carried Forward		R	
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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/60	<p>Inspection of the site (B3.3)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/61	<p>There will be a compulsory site inspection will be conducted by the Principal Agent, tenderers are advised to attend the site briefing meeting to make themselves thoroughly acquainted with the conditions on site and scope of works.</p> <p>Tenderers are advised to arrive atleast one hour early before briefing meeting in order to avoid delays related to locating the venue.</p> <p>No claims for extras arising from the contractor having failed to comply with this clause will be entertained</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/62	<p>Existing premises occupied (B3.4)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/63	<p>Previous work - dimensional accuracy (B3.5)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/64	<p>Previous work - defects (B3.6)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/65	<p>Services - known (B3.7)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/66	<p>Services - unknown (B3.8)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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EMIS NUMBER: 600100234

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	Brought Forward		R	
1/1/67	Protection of trees etc (B3.9) F:..... V:..... T:.....	Item		
1/1/68	Articles of value (B3.10) F:..... V:..... T:.....	Item		
1/1/69	Inspection of adjoining properties etc (B3.11) F:..... V:..... T:.....	Item		
	<u>Management of contract (B4)</u>			
1/1/70	Management of the works (B4.1) The contractor is to submit with his tender a synopsis of the proposed management team envisaged for this project. F:..... V:..... T:.....	Item		
1/1/71	Programme for the works The contractor is to submit with his tender a detailed program outlining the envisaged programming of the works F:..... V:..... T:.....	Item		
1/1/72	Progress meetings (B4.3) F:..... V:..... T:.....	Item		
1/1/73	Technical meetings (B4.4) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
	<u>Samples and shop drawings and manufacturer's instructions (B5)</u>			
1/1/74	Samples of materials (B5.1) F:..... V:..... T:.....	Item		
1/1/75	Workmanship samples (B5.2) F:..... V:..... T:.....	Item		
1/1/76	Shop drawings (B5.3) F:..... V:..... T:.....	Item		
	<u>Temporary works and plant (B6)</u>			
1/1/77	Deposits and fees (B6.1) F:..... V:..... T:.....	Item		
1/1/78	Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
1/1/79	Advertising (B6.3) F:..... V:..... T:.....	Item		
1/1/80	Plant, equipment, sheds and offices (B6.4) F:..... V:..... T:.....	Item		
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BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/81	<p>Main notice board (B6.5)</p> <p>Provision shall be made for 1 set of Professional boards</p> <p>Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Development Bank of South Africa chromadek signage board that must be 2 x 4m.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/82	<p>Subcontractors notice board (B6.6)</p> <p>F:..... V:..... T:.....</p> <p><u>Temporary services (B7)</u></p>	Item		
1/1/83	<p>Location (B7.1)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/84	<p>Water (B7.2)</p> <p>Alternative A</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/85	<p>Electricity (B7.3)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/86	<p>Telecommunication equipment (B7.4)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/87	<p>Ablution facilities (B7.5)</p> <p>F:..... V:..... T:.....</p>	Item		
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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
	<u>Prime cost amounts (B8)</u>			
1/1/88	Responsibility for prime cost amounts (B8.1) F:..... V:..... T:.....	Item		
	<u>Attendance on N/S Subcontractors (B9)</u>			
1/1/89	General attendance (B9.1) F:..... V:..... T:.....	Item		
1/1/90	Special attendance (B9.2) F:..... V:..... T:.....	Item		
1/1/91	Commissioning - Fuel, water and power (B9.3) F:..... V:..... T:.....	Item		
	<u>Financial aspects (B10)</u>			
	Statutory taxes, duties and levies (B10.1) F:..... V:..... T:.....	Item		
1/1/92	Provision for Value Added Tax (VAT) is made in the Final Summary F:..... V:..... T:.....	Item		
1/1/93	Payment of preliminaries (B10.2) F:..... V:..... T:.....	Item		
1/1/94	Adjustment of preliminaries (B10.3) F:..... V:..... T:.....	Item		
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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/103	Vermin (B11.7) F:..... V:..... T:.....	Item		
1/1/104	Overhand work (B11.8) F:..... V:..... T:.....	Item		
	<u>Schedule of variables (B12)</u>			
1/1/105	Pre-tender information (B12.1) F:..... V:..... T:..... Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that either no details or specific requirements are available or that the clause is not relevant to this specific contract	Item		
1/1/106	12.1.1 Provisional bills of quantities (B2.2) The quantities are provisional: Yes F:..... V:..... T:.....	Item		
1/1/107	12.1.2 Availability of construction documentation (B2.3) Construction documentation is not complete: Yes F:..... V:..... T:.....	Item		
1/1/108	12.1.3 Interest of agents (B2.4) F:..... V:..... T:.....	Item		
1/1/109	12.1.4 Defined works area (B3.1) F:..... V:..... T:.....	Item		
	Carried Forward		R	
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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/110	12.1.5 Geotechnical investigation (B3.2) F:..... V:..... T:.....	Item		
1/1/111	12.1.6 Existing premises occupied (B3.4) F:..... V:..... T:.....	Item		
1/1/112	12.1.7 Services - known (B3.7) F:..... V:..... T:.....	Item		
1/1/113	12.1.8 Protection of trees (B3.9) F:..... V:..... T:.....	Item		
1/1/114	12.1.9 Inspection of adjoining properties (B3.11) F:..... V:..... T:.....	Item		
1/1/115	12.1.10 Enclosure of the works (B6.2) F:..... V:..... T:.....	Item		
1/1/116	12.1.11 Offices (B6.4.3) F:..... V:..... T:.....	Item		
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BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/117	<p>12.1.12 Main notice board (B6.5)</p> <p>Provision shall be made for 1 set of Professional boards</p> <p>Lettering shall include 1 logo not exceeding 200 x 200mm per consultant and contractor all in colour and 1 Development Bank of South Africa chromadek signage board that must be 2 x 4m.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/118	<p>12.1.13 Subcontractors notice board (B6.6)</p> <p>A notice board is required: No</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/119	<p>12.1.14 Water (B7.2)</p> <p>Alternative Selected: A</p> <p>The contractor shall make provision for water connection requirements that will enable them to carry out works around the site.</p> <p>The contractor shall apply for all necessary supply connections requirements with the Local Authority. Should the local authority refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1</p> <p>PRELIMINARIES</p> <p>Bill No. 1</p> <p>Preliminaries and General</p>			

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EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/120	<p>12.1.15 Electricity (B7.3) Alternative selected: A</p> <p>The contractor shall make provision for electrical power connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/121	<p>12.1.16 Telecommunications (B7.4) Alternative selected: A</p> <p>The contractor shall make provision for telephone connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the relevant Agency. Should the Agency refuse services supply to site, the contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Agency would have supplied services to site ie in compliance with the specifications of the Agency.</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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	Brought Forward		R	
1/1/122	<p>12.1.17 Ablution facilities (B7.5) Alternative selected: A</p> <p>The contractor shall make provision for sewer connection requirements that will enable them to carry out works around the site. The contractor shall apply for all necessary supply connections requirements with the Local authority. The contractor shall connect to any other existing services pointed to him by the Principal Agent in the same manner that the Local authority would have supplied services to site ie in compliance with the specifications of the Local authority.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/123	<p>12.1.8 Special attendance (B9.2)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/124	<p>12.1.19 Protection of the works (B11.1)</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/125	<p>12.1.20 Protection of existing/sectionally occupied works (B11.2) Protection is required: Yes</p> <p>The contractor shall conduct an as built survey (photographic and written) prior to commencing works. All damage caused by the Contractor during the contract shall be rectified at the Contractors cost.</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/126	<p>12.1.21 Disturbance (B11.5)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries and General</p>			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
1/1/127	Post tender information (B12.2) F:..... V:..... T:.....	Item		
1/1/128	12.2.1 Payment of preliminaries Alternative selected: (A or B) F:..... V:..... T:.....	Item		
1/1/129	12.2.2 Adjustment of preliminaries Alternative selected: (A or B) F:..... V:..... T:.....	Item		
1/1/130	12.2.3 Additional agreed preliminaries items F:..... V:..... T:.....	Item		
	<u>SECTION C: SPECIFIC PRELIMINARIES</u>			
1/1/131	GUARANTEE Where guarantees are called for, the contractor shall obtain a written guarantee, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the certified completion of the contract. The guarantee shall state that workmanship, materials and installation are guaranteed for a specified period from the date of certified completion of the contract, and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice from the principal agent to do so. This guarantee will not be enforced if the work is damaged by structural defects in the building in which case the responsibility for replacement shall rest entirely with the contractor unless found to be as a result of a design fault. F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/132	<p>SHOP DRAWINGS</p> <p>The contractor and/or nominated/selected sub-contractor shall prepare and submit, at his own expense, three (3) copies of shop drawings of all fabricated work, working or setting out drawings shop details and schedules to the principal agent for approval prior to commencement of manufacture.</p> <p>Correction of shop drawings shall not constitute a change in scope of work unless the contractor notifies the Principal Agent in writing within seven (7) calendar days and shall not proceed with fabrication until so authorised by the principal agent</p> <p>F:..... V:..... T:.....</p>	Item		
1/1/133	<p>SAMPLES</p> <p>Samples are physical examples furnished by the contractor to illustrate materials, equipment or workmanship and to establish standards by which the work will be judged. The contractor shall furnish without delay such samples and "mock ups" as may be called for by the Principal Agent, who may reject all material and workmanship not corresponding with the approved samples.</p> <p>Samples must be submitted in duplicate or as instructed and must allow a reasonable time for their consideration.</p> <p>Samples must be properly labelled with the project name and location, contractor's name, the type, finish composition of materials date of submission and the contract document reference in which the project is identified.</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries and General</p>			

	Brought Forward		R	
1/1/134	SITE INSTRUCTIONS Site instructions issued are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor. Site instructions to the various sub-contractors may be issued only by the Principal Agent and must be issued via the contractor. Copies of all site instructions issued are to be submitted for the principal agent and the quantity surveyors within two (2) days of issue. F:..... V:..... T:.....	Item		
1/1/135	OVERTIME 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 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:..... T:.....	Item		
1/1/136	CO-OPERATION OF CONTRACTOR FOR COST CONTROL It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost control in an effort to prevent the final building cost from exceeding the budget. It is specifically agreed that the professionals and the contractor will endeavour to agree and sign off variations within sixty days of them arising. F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries and General			

	Brought Forward		R	
1/1/137	SITE LEVELS Before commencement of the works, the contractor shall carry out and provide the principal agent, for approval, a survey of the existing site levels in sufficient details to enable the preparation of a final account. F:..... V:..... T:.....	Item		
1/1/138	PROPRIETARY BRANDED PRODUCTS The contractor 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 the manufacturer's authorised representative F:..... V:..... T:.....	Item		
1/1/139	AS BUILT DRAWINGS 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 principal agent and the structural engineer for their records. F:..... V:..... T:.....	Item		
Carried to Final Summary			R	
Section No. 1 PRELIMINARIES Bill No. 1 Preliminaries and General				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>DECANTING</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p>Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the project manager</p> <p>The Contractor to acknowledge that sequencing of the work will be necessary to accommodate the operational aspects of the school. The Contractor to accordingly factor the above requirement in the construction programme and pricing. <i>All occupants of the existing school must be removed into the decanted site before the works commence.</i></p> <p><u>Transportation of units</u></p> <p>Transportation of the units and any other associated materials to provide a fully functional structure will be at the cost of the contractor factored into the cost per unit. Contractor to factor in the consequences of inflation into costs.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 1 Decanting</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Delivery Period</u></p> <p>Delivery period of the units needs to accommodate the removal of the occupants of the existing school to the decanting site. Contractors programme needs to reflect the sequence of the removal of occupants and furniture into the mobile units.</p> <p><u>Positioning and Site Requirements</u></p> <p>a) The site is required to be level with a slope not exceeding 200mm over the full length of each building b)The positioning of the units will be as per Architectural Drawing No. 145 - S1_B_wd.105 Site Decanting Layout</p> <p><u>Access to Site</u></p> <p>Contractor is to ensure that delivery trucks/trailers for the units have access to the site for delivery.</p> <p><u>Warranty</u></p> <p>Contractor to ensure all necessary warranties and insurances for the units are in place and handed over to the Project Manager upon evacuation of the units. Warranties are to also include all equipment and appliances.</p> <p><u>Re-usable Materials</u></p> <p>Contractor to ensure materials earmarked to be re used for the new structures once decanting site has been evacuated to be kept safe and in good condition</p> <p><u>De-establishment</u></p> <p>Contractor to de-establish the whole decanting site upon completion and arrange for the transportation of the units to a destination selected by the Client</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 1 Decanting</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Notes</u></p> <p>Tenderers are advised to inspect the site and to acquaint themselves with the site conditions and it's surroundings.</p> <p>The items as referenced in this BOQ and the drawing are INDICATIVE and for reference/identification only.</p> <p>It shall be the tenderer's responsibility in it's entirety to identify all items (even if not identified in this BOQ or on the drawings).</p> <p><u>Municipal Regulations</u></p> <p>The tenderer is to allow for the disconnecting of all existing services (i.e. electrical, water and sewer) and to obtain the necessary permits in this regard</p> <p>The whole of the works shall be carried out in accordance with municipal regulations and to the entire satisfaction of the Municipal Authorities</p> <p>The contractor is to take it upon himself to be in possession of, at all times, all permits and municipal certificates, etc. and to fully understand all local authority rules and regulations for the duration of their contract.</p> <p>Contractors are to include for all documentation, licences, regulations, etc.</p> <p><u>Hoarding</u></p> <p>The Contractor shall provide a safety plan and protection/site hoarding plan for approval by the Principal Agent, ensuring public safety.</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 1 Decanting</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Disturbances</u></p> <p>The Contractor shall carry out the whole of the work with as little mess and noise possible with a minimum disturbance to adjoining premises and their occupants. He shall keep the site, structures and materials well watered during operations to prevent dust and shall provide, erect and maintain all temporary tarpaulins, dust and weather-proof screens, barriers and temporary plumbing that may be necessary during the progress of the work, all to the satisfaction of the Principal Agent and the Municipal Authorities, and remove when directed.</p> <p><u>Notice to Adjoining Owners</u></p> <p>At the commencement of the work the Contractor shall give notice to the adjoining owners, to whose premises any services such as water, telephone, electric power, etc. are carried, via, or supported by the buildings to be demolished and shall ensure that such services are maintained without interruption.</p> <p><u>PROJECT SPECIFICATION</u></p> <p>This Bills of Quantities is to be read in conjunction with detailed design drawings as issued by Architects and work is to be executed to the full satisfaction of the consultants and principal agent.</p> <p>The descriptions contained in these Bills of Quantities are to be read in conjunction with the drawings and are intended as a means of identifying the various facets of the work. Tenderers shall allow for all costs in connection with the various items taking full cognizance of the drawings, schedules of finishes, and Bills of Quantities descriptions.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves with the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 1 Decanting</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

<p style="text-align: center;">Brought Forward</p> <p>Tenderers are to read the descriptions, which are intended as a means of identifying various facets of the work, in conjunction with the drawings. Tenderers shall allow for all costs in connection with the various items taking full cognisance of both the drawings and the Bills of Quantities.</p> <p>Tenderers are to inspect the drawings issued with these Bills of Quantities and to satisfy themselves as to the nature and the requirements of the Contract works. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard</p> <p>Tenderers shall notify the Quantity Surveyor in writing of any discrepancies encountered upon which clarification will be given by the Quantity Surveyor in writing to the Tenderer. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard</p> <p>Tenderers are to note that setting out of the works will be the complete responsibility of the Tenderer and they should therefore acquaint themselves with the site boundaries, site co-ordinates, datum levels etc. Failure to do so will be the complete responsibility of the Tenderer and no claims whatsoever will be entertained in this regard.</p> <p>Tenderers are to note that all items with ZERO quantities are Rate Only items and should be priced as such.</p> <p>Where specifications and descriptions in these Bills of Quantities are in conflict with previous specifications (Preambles), then the specifications or descriptions in these Bills of Quantities shall take preference.</p> <p>Descriptions as referred to in these Bills of Quantities are intended for REFERENCE PURPOSES ONLY and where discrepancies between the Bill items and the drawings occur, the drawings shall take preference. Such discrepancies shall be qualified by the tenderers and failure to do so shall indemnify the Employer and/or his agents against any additional costs, etc. resulting from such discrepancies.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 1 Decanting</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	<p style="text-align: right;">Brought Forward</p> <p>Tenderers will be required to have sufficient teams on site, at all times, as to ensure that the programme dates are met. Tenderers are to allow for this in their tenders as no claim for additional teams or workmen will be entertained at a later stage.</p> <p>Tenderers are advised that no site accommodation will be provided for their use. As such tenderers are to allow for this item in their submitted rates, or under the items provided for in the Preliminary & General sections.</p> <p>Final measurement of the works shall be made from the construction drawings and priced in accordance with the rates contained herein.</p> <p>The contractor shall identify and expose, where relevant, all underground services on site. He should liaise with all relevant authorities for the location and protection of these services.</p> <p>Tenderers are to note that all existing services located on interleading roads or adjacent to the site must not be damaged or disrupted. All costs due to damage to these services will be to the tenderers account.</p> <p>Tenderers are to note that all the rates to be priced in this document are deemed to be inclusive of all the necessary items required to complete the works including all transport and logistics. No claim in this regard will be entertained at a later stage</p> <p>The contractor will be required to use labour intensive methods for the items which have been marked with the letters "LI" as described in the scope of work.</p> <p><u>GENERAL</u></p> <p><u>Protection from damage</u></p> <p>Contractor to ensure that all units are rigged into place off the ground to eliminate any storm water damage</p> <p><u>SITE PREPARATION</u></p>		R	
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 1 Decanting</p>		R	

2/1/1

Item

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Classroom Units</u>				
2/1/7	Provide mobile classroom unit approximate size 8727mm x 5000mm placed on top of concrete pads (400mm x 400mm) concrete pads. The classrooms to include 2 x pin up board size (2.4m x 1.2m high), 2x White Non - magnetic board size (2.4m x 1.2m high) with vinyl sheeting installed in the to floors.				
	Note: All windows and doors to include burglar bars	No	4		
	<u>Ablution Units</u>				
2/1/8	Provide mobile male ablutions overall approximate size 8727mm x 3000mm, placed on top of concrete pads (400mm x 400mm) concrete pads. The ablutions consists of 3x WC Porcelain close couple cubicle, 3x urinal wall hung porcelain and 3x Wash hand basin porcelain pedestal complete with plumbing	No	1		
2/1/9	Provide mobile female ablutions approximate size 8727mm x 3000mm, placed on top of concrete pads (400mm x 400mm) concrete pads. The ablutions consists of 6x WC Porcelain close couple cubicle and 3x Wash hand basin porcelain pedestal complete with plumbing	No	1		
	<u>Vehicular Steel Gates</u>				
2/1/10	Galvanised sliding gate 7700 x 2400mm high overall in two leaves, each leaf formed of 50mm diameter x 2,8mm thick pipe framing all round with one 50mm diameter x 2,8mm thick pipe diagonal brace all neatly mitred and welded at intersections with covering all as for fence strained and securely fixed to framing complete with two pairs of hinge bolts, two heavy duty barrel bolts and purpose made locking device. Including galvanised razor sharp comb welded to the gate	No	1		
	<u>Temporary Fencing</u>				
2/1/11	1.8m high perimeter wire mesh fence made up of wire with aperture size 76.2 x 12.7mm c/c. Panel reinforced with 4 x 50mm deep "V" formation horizontal recessed bands including 2 x 70 degree along top and toe, including 85 x 85mm taper locking steel posts @ 3.39m intervals (LI)	m	164		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 1 Decanting				

TENDER NO: RFP 244/2022

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 2</u></p> <p><u>DEMOLITIONS AND ALTERATIONS</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 102</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Existing structures</u></p> <p>In taking down and removing existing work, the utmost care shall be taken to prevent any structural or other damage to the remaining portions on the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during the alteration work, Any damage to the structure and/or building as well as the rectification of same will be for the contractor's account</p> <p><u>Services</u></p> <p>Special care shall be exercised during the progress of the work to ensure that electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 2 Demolitions and Alterations</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Dust and noise</u></p> <p>The Contractor is to take all necessary precautions to the satisfaction of the Representative/Agent to prevent any nuisance from the dust and /or noise whilst carrying out the work.</p> <p><u>Disposal of debris</u></p> <p>The Contractor shall be responsible for the removal from site of all materials, debris and rubbish resulting from the work which removal is deemed to be included in the rates unless otherwise stated.</p> <p>Rates for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p><u>Temporary support to openings through existing walls</u></p> <p>Making openings, altering openings in existing walls and removing lintels above existing openings shall be done with the utmost care to prevent any structural damage. All necessary supports, propping, shoring, needling, strutting, turning pieces, etc. to walls openings is deemed to be included in the contractor's rates.</p> <p><u>Electrical and Mechanical</u></p> <p>Where items include for taking down electrical and mechanical fittings the disconnection and making safe electrically is deemed to be included.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>TEMPORARY BARRIERS, SCREENS, ETC.</u></p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 2 Demolitions and Alterations</p>		R	
		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward				R
	<u>Temporary barriers, screens, etc. including removal</u>				
2/2/1	1800mm high safety net (Colour: TBC) including pole, foundation pads, etc all in accordance to the architect's approval	m	250		
	<u>REMOVAL OF EXISTING WORK</u>				
	<u>Demolitions of existing structures all complete</u>				
2/2/2	Single storey brick and mortar classroom blocks with pitched roof, comprising of surface bed, external and internal brick walls, corrugated roof covering on timber trusses	m2	360		
	<u>Breaking up and removing mass concrete</u>				
2/2/3	100mm Thick aprons	m2	150		
	<u>Breaking up and removing reinforced concrete including cutting off and removing reinforcement</u>				
2/2/4	Reinforced Concrete	m3	55		
	<u>Breaking down and removing precast concrete</u>				
2/2/5	680 x 680mm precast winblocks	No	498		
	<u>Hacking up/off and removing brick / concrete paving, screeds, etc</u>				
2/2/6	25mm thick concrete screed	m2	358		
	<u>Taking out and removing doors, windows, etc including making good frame (paintwork measured elsewhere)</u>				
2/2/7	Timber single door, size 813mm x 2032mm high	No	44		
2/2/8	Timber double door, size 1500 x 2100mm high	No	2		
	<u>Taking out and removing ironmongery</u>				
2/2/9	Remove green chalk board size 4880mm x 1260mm high and make good plaster	No	5		
	Carried Forward				R
	Section No. 2 BUILDER'S WORK Bill No. 2 Demolitions and Alterations				

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Taking up and removing vinyl floor coverings carpeting, tiles etc</u>				
2/2/23	Vinyl tile floor covering including preparing screed for new vinyl floor covering	m2	358		
	<u>Hacking up/off and removing floor tile and wall finishes, including removing mortar bed or backing from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc</u>				
2/2/24	300 x 300mm porcelain Tiles to floors	m2	240		
2/2/25	300 x 300mm ceramic Tiles to walls	m2	143		
	<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
2/2/26	Vitreous china WC pan with cistern	No	21		
2/2/27	Vitreous china wash hand basin	No	25		
2/2/28	Vitreous china wall hung urinal with flush valve	No	1		
2/2/29	Stainless steel sink and drainer	No	1		
	<u>Taking out and removing glass and mirrors</u>				
2/2/30	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	5		
	<u>MAKING GOOD OF FINISHES ETC</u>				
	<u>Making good screed</u>				
2/2/31	Floors in patches	m2	99		
	<u>Making good internal cement plaster</u>				
2/2/32	Walls in patches	m2	113		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 2 Demolitions and Alterations				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward			R	
	<u>Cleaning of face brickwork</u>			
2/2/33	Clean and treat face-bricks with approved oxidation preventative solution	m2	137	
	<u>Cleaning of existing floor finish. Apply one coat M-Chem Multi Purpose Cleaner mixed to the ratio of 1 part M-Chem Multi Purpose Cleaner: 3 parts hot or warm water into grout lines, using a spray bottle or sponge. Allow 5 minute contact reaction time and scrub grout lines with scouring pad or scrubbing brush. Clean grout lines using clean fresh water to prevent residue forming (Code: MCMPC.25), all in accordance with manufacturer's recommendations.</u>			
2/2/34	Deep clean paving	m2	366	
	<u>Making good existing carpots</u>			
2/2/35	Make good existing carpots including roof coverings, paving, steel posts, all complete in accordance with architect's approval	m2	160	
	<u>Cleaning of metal</u>			
2/2/36	Cleaning of MS columns not exceeding 3.5m high (paint measured elsewhere)	No	50	
	<u>BUDGETARY ALLOWANCES</u>			
2/2/37	Provide the amount as indicated for builders work in connection with alteration sundries	Item		200 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 2			
	BUILDER'S WORK			
	Bill No. 2			
	Demolitions and Alterations			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>EARTHWORKS (PROVISIONAL)</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 104</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling</u></p> <p>Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any multiple handling of material</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 3 Earthworks</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R
	Excavations measured in successive depths of 2m.			
	<u>EXCAVATIONS</u>			
	<u>Excavation in earth not exceeding 2m deep</u>			
2/3/1	Trenches	m3	103	
2/3/2	Holes	m3	3	
2/3/3	Bulk excavations	m3	36	
	<u>Extra over excavations in earth to trenches and holes for</u>			
2/3/4	Excavation in soft rock	m3	13	
2/3/5	Excavation in hard rock	m3	7	
	<u>Back excavation of vertical sides of excavation in earth for working space including backfilling compacted to 93% Mod AASHTO density</u>			
2/3/6	Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc.. 500mm away from excavated face	m2		
	<u>CARTING AWAY OF EXCAVATED MATERIAL</u>			
	<u>Note:</u>			
	Description of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or , alternatively, from stock piles situated on the building site.			
2/3/7	Extra over all excavation for carting away surplus material from excavation and / or stockpile on site to a dumping site to be located by the Contractor	m3	129	
	<u>RISK OF COLLAPSE OF EXCAVATIONS</u>			
	<u>Risk of collapse to side of excavation in earth not exceeding 1,5m deep</u>			
2/3/8	Trenches and holes	m2	894	
	Carried Forward			R
	Section No. 2 BUILDER'S WORK Bill No. 3 Earthworks			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward			R	
2/3/9	<u>KEEPING EXCAVATIONS FREE FROM WATER</u>			
	Keeping excavations free of all water other than subterranean water	Item		
Carried Forward			R	
Section No. 2 BUILDER'S WORK Bill No. 3 Earthworks				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>FILLING, ETC.</u>				
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density in layers not exceeding 150mm thick</u>				
2/3/10	Backfilling to trenches, holes, etc	m3	13		
2/3/11	Under floors, steps, pavings, etc	m3	145		
	<u>Imported gravel filling (G5) compacted to 98% Mod AASHTO density in layers not exceeding 150mm thick</u>				
2/3/12	Under floors, steps, pavings, etc	m3	150		
	<u>Imported gravel filling (G7) compacted to 95% Mod AASHTO density in layers not exceeding 150mm thick</u>				
2/3/13	Under floors, steps, pavings, etc	m3	150		
	<u>COMPACTION OF SURFACES</u>				
2/3/14	Prepare ground surface by scarifying sub-grade, rip and re-compact 150mm to 90% modified AASHTO density	m2	1 617		
	<u>TESTS</u>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
2/3/15	Modified AASHTO Density test	No	1		
	<u>WEED KILLERS, INSECTICIDES, TERMITES, etc.</u>				
	<u>Protection against termites, ants, etc</u>				
2/3/16	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	1 587		
2/3/17	To bottom and sides of excavated trenches, Holes, etc.	m2	1 207		
	Carried Forward to Summary of Section No.			R	
	Section No. 2				
	BUILDER'S WORK				
	Bill No. 3				
	Earthworks				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 4</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 110</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Cost of tests</u></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7, "Tests" of SANS 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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)</p> <p><u>Formwork</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 4 Concrete, Formwork and Reinforcement</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

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TENDER NO: RFP 244/2022

<p align="center">Brought Forward</p> <p>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.</p> <p>Formwork to soffits of solid slabs, etc. shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to soffits of slabs, beams, etc. shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described.</p> <p>Formwork to sides of bases, pile caps, ground beams, etc. will only be measured where it is prescribed by the engineer for design 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".</p>		R	
<p align="center">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 4 Concrete, Formwork and Reinforcement</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

<p style="text-align: center;">Brought Forward</p> <p>The Tenderer is to note that for the "off-shutter" concrete finish shall be in accordance with the architectural specification 616 CON-140: Smooth + fair finish:-</p> <ul style="list-style-type: none"> · Degree of accuracy: I · Finish: Smooth and even · Form facing material to produce a smooth, hard, uniform texture on the concrete · Steel faced formwork. Joints grout-tight. · Panels shall be as large as practicable and arranged in a regular pattern as a feature of the surface · Formwork tie holes: to the approval of the architect · Repair imperfections: not allowed. Tie bolt holes shall be patched · Not permitted: blowholes, small fins, bulges, irregularities, voids, honeycombing, segregation and other large defects. · Concrete surfaces: No further treatment to form a smooth finish of uniform texture, appearance and colour <p>Structural Concrete</p> <p>Tenderers are referred to the Structural Engineer's - Standard Specifications which should be read before pricing this trade in particular, but also the other trades. The use of extenders, fly-ash, etc. are clearly described on this drawing.</p>		R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 4 Concrete,Formwork and Reinforcement</p>		R	

	Brought Forward			R	
	<u>GENERAL NOTES TO TENDERERS</u>				
	General notes, described in Bill No.1, shall equally apply to this Bill.				
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>10Mpa/19mm concrete</u>				
2/4/1	Blinding	m3	14		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACE</u>				
	<u>30MPa/19mm Concrete</u>				
2/4/2	Strip footings	m3	2		
2/4/3	Ground beams (raft foundation)	m3	79		
2/4/4	Bases	m3	3		
	<u>REINFORCED CONCRETE CAST IN FORMWORK</u>				
	<u>30MPa/19mm concrete</u>				
2/4/5	Concrete Apron cast to fall etc,	m3	85		
	<u>30MPa/19mm Concrete</u>				
2/4/6	Surface beds cast in panels	m3	158		
2/4/7	Ramps	m3	6		
2/4/8	Walls	m3	8		
2/4/9	Isolated beams	m3	15		
	<u>TEST BLOCKS</u>				
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 4 Concrete,Formwork and Reinforcement				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

				R	
	Brought Forward				
	<u>Notes:</u>				
	Concrete strength test cubes, label and send to an approved laboratory for testing, pay all charges and submit report to the Regional Representative. Only successful tests will be paid for (Provisional)				
2/4/10	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	174		
	<u>SUNDRIES TO CONCRETE</u>				
	<u>Surface treatment</u>				
2/4/11	Power float top surface of concrete surface bed to a true and even level finish	m2	1 800		
	<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>				
	<u>Rough formwork to sides</u>				
2/4/12	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	703		
2/4/13	Sloping and stepped outer edges of ramps not exceeding 300mm high extreme	m	40		
2/4/14	Walls with total height not exceeding 3,5m above bearing level	m2	78		
2/4/15	Inverted beams	m2	230		
	<u>Rough formwork to sides and soffits</u>				
	<u>MOVEMENTS JOINTS ETC,</u>				
	<u>Saw cuts Joints</u>				
2/4/16	3 x 30mm In saw cut joints in floors	m	307		
	<u>Expansion joints</u>				
2/4/17	10mm soft board or similar approved between concrete and brick wall	m	337		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 4 Concrete,Formwork and Reinforcement				

TENDER NO: RFP 244/2022

2/25

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 5</u></p> <p><u>PRECAST CONCRETE</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 112</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Prices are to include for building in as single units or combinations in patterns of two or more window units and for bedding solid all round in mortar and pointing</p> <p>Note: Steel infill windows, glazing and pointing with sealing compound are measured elsewhere</p> <p><u>PRECAST CONCRETE</u></p> <p><u>Similar Approved</u></p> <p><u>"Winblok" modular precast concrete window surrounds etc finished smooth on exposed surfaces including bedding, jointing and pointing</u></p>			
2/5/1	<p>680 x 680 x 290mm Type C standard residential window surround</p>	No	929	
	<p>Carried Forward to Summary of Section No.</p> <p>Section No. 2</p> <p>BUILDER'S WORK</p> <p>Bill No. 5</p> <p>Precast Concrete</p>			R

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 6</u></p> <p><u>MASONRY</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 118</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Hollow walls etc</u></p> <p>Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole. Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brickseal" bitumen emulsion waterproofing coating.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 6 Masonry</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Face bricks</u>				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	<u>Pointing</u>				
	Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc				
	<u>BRICKWORK IN FOUNDATION</u>				
	<u>Brickwork in 73mm burnt clay masonry units class FBS in Class II mortar, laid in stretcher bond with 10mm flush joints</u>				
2/6/1	One brick wall	m2	10		
	<u>SUPERSTRUCTURE BRICKWORK</u>				
	<u>Brickwork of FBS brick in class II mortar laid in stretcher bond with 10mm flush joints</u>				
2/6/2	One brick wall	m2	1 485		
2/6/3	Half brick wall	m2	295		
2/6/4	Half brick wall, in beamfilling	m2	49		
	<u>Mass brickwork in regular piers of FBS brick in class II mortar laid in stretcher bond</u>				
2/6/5	460 x 260mm Brick Piers	m3	2		
	<u>FACE BRICKWORK</u>				
	Bricks shall be ordered timeously to obtain uniformity in size and colour				
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 6 Masonry				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Face bricks Type 1 (Colour: TBC) with PC sum amount of R 4 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with square recessed 6mm joints in both directions</u>				
2/6/6	Extra over brickwork for face brickwork in superstructure	m2	374		
2/6/7	Extra over brickwork for face brickwork in foundations	m2	5		
2/6/8	Extra over brickwork for face brickwork to piers	m2	9		
	<u>Face bricks Type 2 (Colour: TBC) with PC sum amount of R 3 500.00 per thousand bricks delivered to site (excluding VAT) manufactured in accordance with SANS 227-2007, bedded and jointed in Class II mortar and pointed with square recessed 6mm joints in both directions</u>				
2/6/9	Extra over brickwork for face brickwork in superstructure	m2	769		
2/6/10	Extra over brickwork for face brickwork in beamfilling	m2	49		
2/6/11	Brick-on-edge horizontal coping	m	45		
	<u>BRICKWORK SUNDRIES</u>				
	<u>Brickwork reinforcement</u>				
2/6/12	75mm Wide reinforcement built in horizontally	m	869		
2/6/13	150mm Wide reinforcement built in horizontally.	m	4 396		
	<u>Precast concrete prestressed fabricated lintels</u>				
2/6/14	100 x 70mm Lintels in lengths not exceeding 3m	m	60		
2/6/15	175 x 70mm Lintels in lengths not exceeding 3m	m	7		
	<u>Turning pieces</u>				
2/6/16	110mm Wide turning piece to flat brick lintels	m	66		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 6 Masonry				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward			R	
	<u>Air bricks etc</u>			
2/6/17	Set of 2x 240 x 155mm vermin proof Terracota air bricks, installed as per manufacturer's recommendations	No	4	
	<u>Fair cutting to face brickwork</u>			
2/6/18	Fair raking cutting at gables	m	37	
	<u>Roof ties</u>			
2/6/19	30 x 1.2mm galvanised steel strapping, built into wall for 5 courses and minimum 800mm to be fixed to trusses	No	589	
	<u>MOVEMENTS JOINTS ETC,</u>			
	<u>Expansion joints</u>			
2/6/20	10mm softboard between vertical brick surfaces not exceeding 300mm wide	m2	9	
Carried Forward to Summary of Section No.			R	
Section No. 2				
BUILDER'S WORK				
Bill No. 6				
Masonry				

Item No		Quantity	Rate	Amount																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>WATERPROOFING</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 120</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>DAMP PROOFING OF WALLS AND FLOORS</u></p> <p><u>One layer of 375 micron "Consol Plastic Brikgrip DPC" embossed damp proof course</u></p> <tr><td>2/7/1</td><td>Under walls</td><td>m2</td><td>74</td><td></td></tr> <tr><td>2/7/2</td><td>Under cills, etc.</td><td>m2</td><td>28</td><td></td></tr> <tr><td></td><td><p><u>One layer of 250 micron "USB Green" or similar approved damp proof membrane sealed at laps with PVC self -adhesive tape</u></p></td><td></td><td></td><td></td></tr> <tr><td>2/7/3</td><td>Under surface beds.</td><td>m2</td><td>2 404</td><td></td></tr> <tr><td></td><td><p><u>PROTECTIVE ROOFING PAINT</u></p></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td></tr> 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etc.	m2	28			<p><u>One layer of 250 micron "USB Green" or similar approved damp proof membrane sealed at laps with PVC self -adhesive tape</u></p>				2/7/3	Under surface beds.	m2	2 404			<p><u>PROTECTIVE ROOFING 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TENDER NO: RFP 244/2022

2/32

TENDER NO: RFP 244/2022

2/33

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
2/8/3	Extra on roof covering for 38 x 38mm sawn softwood tilting fillets	m	707		
2/8/4	Ridges of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 7mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay and necessary additional battens	m	91		
2/8/5	Hips of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 7mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay, raking cutting to tiles on both sides and necessary additional battens	m	69		
2/8/6	Verges of capping tiles to match roofing tiles, fixed with non-corrosive fixing accessories	m	51		
2/8/7	Extra over hip for hip starter roof tile	No	16		
	<u>'Klip lok 700' sheet metal (Colour: TBC) on 75 x 50mm SAP purlins at max. 1,2m centres on 150 x 38mm centres tied down 4mm steel wires anchored brick courses (680 mm) deep on 114 x 38mm timber wall plates with 225 x 10mm fibre cement fascias to all edges, and 120 x 100mm steel gutter with down pipe</u>				
2/8/8	Roof sheeting pitch not exceeding 25 degrees	m2	82		
	<u>FLASHINGS</u>				
	<u>Approved</u>				
	<u>0.58mm thick flashing galvanised flashing factory finished one side with "Chromadek - Traffic Green", fixed as per manufacturer's specification</u>				
2/8/9	375mm girth Headwall flashing, 2 times bent and notched on site to suit roof profile	m	45		
2/8/10	185mm girth Counter flashing, 2 times bent	m	45		
	<u>ROOF AND WALL INSULATION</u>				
	<u>Approved</u>				
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 8 Roof Coverings				

TENDER NO: RFP 244/2022

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 126</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.</p> <p>Descriptions of hardwood joinery shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Fixing</u></p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 9 Carpentry and Joinery</p>			
			R	

	Brought Forward			R	
	<p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><u>Timber</u></p> <p>All softwood to be South African Pine</p> <p><u>Descriptions</u></p> <p>Items described as "bolted" shall be deemed to exclude the bolts and include the holes unless otherwise described.</p> <p>Where the fixing of members is not stated it shall mean the nailing of one timber member to another.</p> <p>The term "planted on" shall mean the nailing of one timber member to another</p> <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p> <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screw sunk and pelleted.</p> <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p> <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screw sunk and pelleted.</p> <p>Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing.</p> <p>Descriptions of items given in linear metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p>				
	Carried Forward			R	
	<p>Section No. 2</p> <p>BUILDER'S WORK</p> <p>Bill No. 9</p> <p>Carpentry and Joinery</p>				

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward			R	
<u>Sundries</u>				
2/9/3	Two coats creosote on sawn timbers	m2	262	
<u>"Approved" Fascia and badge boards</u>				
2/9/4	15 x 225mm Pressed fibre cement fascia boards, fixed to supports and roof timbers with one brass screw at maximum 750mm centres, including standard aluminium half round cover strips at all joints, as per architect's specification	m	707	
2/9/5	15 x 80 x 300mm fibre cement barge board	m	37	
<u>DOORS ETC</u>				
<u>44mm thick "meranti" ledged and braced doors hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule</u>				
2/9/6	813 x 2032 framed, ledged, braced and battened timber door - D01	No	28	
2/9/7	1511mm x 2032mm Standard Framed, ledged, braced and battened double timber door - D03	No	4	
<u>40mm thick solid flush panel door with hardboard both sides hung and two concealed edges hung to steel frames all in accordance to architectural drawings and door schedules - Refer to Door Schedule</u>				
2/9/8	813 x 2032mm single door - D02	No	24	
2/9/9	813 x 2032mm single door - D02A	No	26	
2/9/10	900 x 2032mm single door - D09	No	4	
<u>SHOPFITTING</u>				
Carried Forward			R	
Section No. 2 BUILDER'S WORK Bill No. 9 Carpentry and Joinery				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

		Brought Forward			R	
		<u>SUPPLY AND INSTALLATION OF SHOPFITTING</u>				
		Supply, manufacture, delivery and installation complete of the following shopfitted items all in accordance with the detailed drawings				
		Prices are to be fully inclusive of all ironmongery, fittings, accessories, openings, cut-outs (for installation of prepbowls, etc.), painting or finishing, etc. as indicated on the drawings				
		<u>NUTRITION CENTRE JOINERY</u>				
		<u>Servery Counter</u>				
2/9/11	750mm high x 905mm deep servery counter all complete as per architect's details - DT50					
	<i>Refer to drawing:</i> <i>TCE_1192_CV_NU_101</i>	m	5			
	<u>Kitchen Worktop</u>					
2/9/12	900mm high x 800mm deep kitchen worktop all complete as per architect's details - DT04C/DT04D					
	<i>Refer to drawing:</i> <i>TCE_1192_CV_NU_101</i>	m	18			
	<u>Store Room Shelving</u>					
2/9/13	1866mm high x 600mm deep shelving all complete as per architect's details - DT54					
	<i>Refer to drawing:</i> <i>TCE_1192_CV_NU_101</i>	m	23			
	<u>GRADE R JOINERY</u>					
	<u>Pigeon Holes</u>					
2/9/14	918mm high x 300mm deep pigeon holes all complete as per architect's details - DT42					
	<i>Refer to drawing:</i> <i>TCE_1192_CV_GR_101</i>	m	10			
		Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 9 Carpentry and Joinery					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Bag Shelves</u>				
2/9/15	918mm high x 300mm deep shelves all complete as per architect's details - DT41				
	<i>Refer to drawing:</i> TCE_1192_CV_GR_101	m	5		
	<u>Storeroom Shelves</u>				
2/9/16	1244mm high x 500mm deep shelves all complete as per architect's details - DT41A				
	<i>Refer to drawing:</i> TCE_1192_CV_GR_101	m	2		
	<u>Cupboards</u>				
2/9/17	900mm high x 600mm deep cupboard all complete as per architect's details - DT04Y				
	<i>Refer to drawing:</i> TCE_1192_CV_GR_101	m	8		
2/9/18	900mm high x 600mm deep cupboard all complete as per architect's details (Sink Elsewhere) - DT04C				
	<i>Refer to drawing:</i> TCE_1192_CV_GR_101	m	9		
2/9/19	900mm high x 600mm deep cupboard all complete as per architect's details - DT04Z				
	<i>Refer to drawing:</i> TCE_1192_CV_GR_101	m	4		
	<u>SKIRTINGS</u>				
	<u>Wrought meranti</u>				
2/9/20	19 x 76mm Skirting or similarly approved plugged including 19mm quadrant bead nailed	m	1 131		
	Carried Forward to Summary of Section No.			R	
	Section No. 2				
	BUILDER'S WORK				
	Bill No. 9				
	Carpentry and Joinery				

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u> <u>BILL NO. 10</u> <u>FLOOR COVERINGS, WALL LININGS, ETC</u> <u>CPAP WORK GROUP</u> Unless otherwise stated all items in this bill will be Work Group 130 <u>PREAMBLES</u> NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preamble items described in Bill No. 1, shall equally apply to this bill. <u>GENERAL NOTES TO TENDERERS</u> General notes, described in Bill No.1, shall equally apply to this Bill. <u>FLOOR COVERINGS</u> <u>2,5mm thick, 300 x 300mm semi flexible vinyl tiles (PC allowance of R 300.00/m2 excludes V.A.T. but includes delivery to site) on screed (measured elsewhere) fixed with adhesive as per manufacturer specifications</u> 2/10/1 On floors m2 1 253 2/10/2 2mm coved skirting m 326 <u>EPOXY FLOOR COVERING</u>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 10 Floor Coverings, Plastic Lining etc.</p>		R	

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 11</u></p> <p><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 129</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>NOTES</u></p> <p><u>Fixing</u></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins, or to be shot-pinned, to brickwork or concrete</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 11 Ceilings,Partitions and Access Flooring</p>		R	

		Brought Forward			R	
		<p><u>Ceilings & Bulkheads</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121</p> <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Where electrical light fittings, diffusers, panels etc are units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Suspension systems</u></p> <p>Where suspensions of ceilings require a sub-grid, the tenderer should include in his rates for the sub-grid. The design of the sub-grid support is not specified, the tenderer is to obtain the necessary requirements and recommendations for a safe installation from the board and suspension system manufacturer to the satisfaction of the structural engineer.</p> <p><u>NAILED UP CEILINGS</u></p> <p><u>FIBRE - CEMENT BOARDS</u></p> <p><u>"Approved" Fibre-cement boards, jointed with and including galvanised H-type primed pressed steel jointing strips, including brandering as per architect's specifications</u></p>				
2/11/1	2400 x 1200mm x 6mm Horizontal ceilings, fixed to and including 38 x 38mm sawn softwood brandering at maximum 400mm centres using 38mm long galvanised nails	m2	1 275			
		Carried Forward			R	
	<p>Section No. 2</p> <p>BUILDER'S WORK</p> <p>Bill No. 11</p> <p>Ceilings,Partitions and Access Flooring</p>					

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 12</u></p> <p><u>IRONMONGERY</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 132</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish, etc.</p>			
	Carried Forward		R	
	<p>Section No. 2</p> <p>BUILDER'S WORK</p> <p>Bill No. 12</p> <p>Ironmongery</p>			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
	<p><u>Proprietary items</u></p> <p>Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items</p> <p>Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered</p> <p>On request returnable samples are to be provided to the principal agent for consideration</p> <p><u>Finishes to ironmongery</u></p> <p>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 AN Anodised natural AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded</p> <p><u>Rates</u></p> <p>The tenderer is to price for supply, taking delivery of, storing and fixing of the ironmongery listed below.</p> <p><u>DOOR FURNITURE</u></p> <p><u>HINGES, BOLTS, ETC</u></p> <p><u>Similar Approved</u></p>			
2/12/1	150mm ST/C flush bolt (Code: 169166)	No	8	
	Carried Forward		R	
	<p>Section No. 2 BUILDER'S WORK Bill No. 12 Ironmongery</p>			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>LOCKS</u>				
	<u>Similar Approved</u>				
2/12/2	N/PL 5-Pin NP single cylinder 3K (Code: 169448)	No	5		
2/12/3	S/SS Prof cylinder escutcheon (Code: 168972)	Pairs	2.5		
2/12/4	Rebate conversion set for 700 Series lock (Code: 169175)	No	4		
2/12/5	S/S mortice indicator bathroom WC set, complete (Code: 169196)	No	30		
2/12/6	76mm S/S multi lever sash lock (Code: 181463)	No	23		
2/12/7	76mm prof cylinder deadlock 22mm CP (Code: 169247)	No	5		
2/12/8	50mm Ikee NP standard padlock (Code: 169402)	No	4		
	<u>HANDLES</u>				
	<u>Similar Approved</u>				
2/12/9	BTB S.S P/HND 130 x 111 x 19mm (Code: 169028)	Pairs	26.0		
2/12/10	330 x 305 x 25mm CTC S/S pull handle	No	8		
2/12/11	Titan lever on back plate (Code: 168983)	Pairs	23.0		
2/12/12	150 x 450 S/S C/W JD213/111 (Code: 200127)	No	5		
	<u>PUSH PLATES AND KICK PLATES</u>				
	<u>Similar Approved</u>				
2/12/13	450 x 150 x 0.9mm S/S push plate (Code: 182092)	No	5		
2/12/14	5.4mm patent f/screw NP 40-55mm for push plates (Code: 169302)	No	30		
	<u>SIGNAGE</u>				
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 12 Ironmongery				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Similar Approved</u>				
2/12/15	160 x 160 x 1.2mm S/S "MALE/FEMALE" sign (Code: 169118)	No	2		
2/12/16	160 x 160 x 1.2mm S/S "MALE" sign (Code: 169117)	No	1		
2/12/17	160 x 160 x 1.2mm S/S "FEMALE" sign (Code: 169112)	No	1		
2/12/18	160 x 160 x 1.2mm S/S "PARAPLEGIC" sign (Code: 169119)	No	4		
	<u>DOOR CLOSERS, ETC</u>				
	<u>Similar Approved</u>				
2/12/19	TS2000G door closer with guide rail SR, complete (Code: 169895)	No	5		
2/12/20	TS4000P delayed action door closer with parallel arm (Code: 169906)	No	4		
2/12/21	Patent fix screws M5 for door closers (Code: 169481)	No	27		
	<u>SUNDRIES</u>				
	<u>Similar Approved</u>				
2/12/22	S/S floor mounted door stop, plugged (Code: 169179)	No	24		
2/12/23	N/P dust excluding keep for flush bolt, plugged (Code: 169638)	No	4		
2/12/24	S/S hat and coat hook with rubber buffer (Code: 169191)	No	26		
	<u>WINDOW FURNITURE</u>				
2/12/25	Supply and install of steel window handle and stay, incl all necessary fittings	No	512		
	Carried Forward to Summary of Section No.			R	
	Section No. 2				
	BUILDER'S WORK				
	Bill No. 12				
	Ironmongery				

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 14</u></p> <p><u>METALWORK</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 136</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>ALUMINIUM</u></p> <p>The contractor is to make due allowance in his prices for complying with the following requirements.</p> <p><u>SPECIFICATIONS</u></p> <p>User Note:</p> <p><u>Glazing</u></p> <p>All Safety glazing material (individual panes) are to conform to all standards as stipulated in SANS 10400 Part N and SANS 10137 and any additional Engineer Specifications or relevant SANS glazing regulations not stipulated in this document. All tenderers are referred to the drawings for the glazing specification.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 14 Metalwork</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Ironmongery</u></p> <p>All rates for windows, shopfronts and doors etc. must include for the supply, taking delivery or/and installation of the ironmongery to be specified.</p> <p><u>Actuators</u></p> <p>All rates for shopfronts with actuators to include for the supply and installation of actuators as specified</p> <p><u>Scaffolding</u></p> <p>All scaffolding should be provided by the contractor and no claims/ qualifications will be accepted.</p> <p><u>Protection</u></p> <p>With this tender, the glazing sub-contractor must supply a statement concerning protection that will be provided to finishes and components until Practical Completion. This to include specific references to the method of removal of such protection. All tenderers to include cost of protection in tender price.</p> <p><u>Installation</u></p> <p>All measurements to be checked on site prior to ordering and manufacturing.</p> <p>Aluminium sections and shop drawings to be accepted by Architect prior to manufacturing.</p> <p>Allow for water and weather proof polysulphide sealant to approved specifications all around frame junctions to plaster and other materials.</p> <p><u>Profiles</u></p> <p>Tenderers to provide typical details of proposed aluminium section to be used in the design.</p> <p><u>Structural Silicone</u></p> <p>Tenderers to allow a 10 year guarantee on all powdercoating.</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 14 Metalwork</p>		R	

<p style="text-align: right;">Brought Forward</p> <p><u>Preliminary and Shop Drawings:</u></p> <p>The contractor shall submit preliminary design drawings showing basic system sections for the Architect's approval.</p> <p>After approval and prior to fabrication detailed shop drawings shall be prepared and submitted to the Architect for approval.</p> <p><u>Fixing:</u></p> <p>The contractor is to take special note of all fixing details of all aluminium elements and must allow in his price for properly securing the aluminium sections to the structure with and including all necessary steel brackets, rails, timber grounds and sub-frames, including all necessary holing and bolting, etc. This fixing is to be adequately spaced and securely fixed to ensure total stiffness of the door frames, windows, etc. as no sagging causing improper functioning of the windows and doors will be accepted.</p> <p><u>Deflection of structure:</u></p> <p>The contractor is advised to make adequate provision for the design deflection of the structure.</p> <p><u>Tolerances:</u></p> <p>Sizes are approximate only and measurements on site must be taken before fabrication. Due allowance must be made for tolerances in accordance with the Architect's details.</p> <p><u>Protection:</u></p> <p>The contractor will be required to protect his work during the course of construction, which protection shall be adequate for the purpose and to the full approval of the Architect.</p> <p>Such protection shall only be removed after a written instruction from the Architect.</p>		R	
<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 14 Metalwork</p>		R	

Brought Forward			R
<p><u>Cleaning:</u></p> <p>All work must be cleaned down upon completion. Glazing as installed will not be accepted as clean glass and the contractor must allow for polishing glass as and when instructed by the Architect.</p> <p>Note: All windows and doors should be read in conjunction with window and door schedules</p> <p><u>WELDED SCREENS, GATES, ETC.</u></p> <p><u>Welded MS gate consisting of 50 x 50 x 2.5mm rectangular tubing section frame with 45 degrees mitre at corners, bolted to reveals with 10mm (10M) rawlbolts and welded with 50 x 50 x 5mm mild steel to walls, with 50 x 50 x 2.5mm mild steel rectangular tube gate leaf with 45 degree mitre at corners and two 50 x 50 x 2.5mm horizontal sections, with 10 x 10mm mild steel vertical style solid square bars at 100mm c/c, including 3x pair of 20mm diameter bullet-hinges per gate, with "Solid blesbok" 460/313 four lever lockset with rebate set, including welding, bolting, holes, bolts etc., all complete as per the architect's drawings and specifications</u></p>			
2/14/1	Steel gate, size 880mm x 2032mm high - G11	No	1
2/14/2	Steel gate, size 1000mm x 2032mm high - G05	No	4
2/14/3	Steel gate, size 1556mm x 2032mm high - G04	No	2
2/14/4	Steel gate, size 1855mm x 2032mm high - G12	No	2
2/14/5	Steel gate, size 1870mm x 2135mm high - G06	No	2
<p><u>PRESSED STEEL DOOR FRAMES</u></p> <p><u>1.2mm thick Single rebated frame suitable for one brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u></p>			
2/14/6	813 x 2032mm single door	No	34
2/14/7	1511 x 2032mm single door	No	4
Carried Forward			R
<p>Section No. 2 BUILDER'S WORK Bill No. 14 Metalwork</p>			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>1.2mm thick Single rebated frame suitable for half brick walls, complete with lugs and base ties, with red oxide primer factory finish by manufacturer</u>				
2/14/8	813 x 2032mm single door	No	44		
2/14/9	900 x 2032mm single door	No	4		
	<u>ROLLER SHUTTER DOORS</u>				
	<u>"Approved" aluminium roller shutter door with 1 coat zinc chromate primer and 2 coats gloss enamel finish, fixed to brickwork or concrete, complete with ironmongery, fittings etc as per manufacturer's recommendations</u>				
2/14/10	2465 x 2125mm standard grille type roller shutter door - R01	No	1		
2/14/11	3860 x 990mm standard grille type roller shutter door - R02	No	1		
	<u>WINDOWS FRAMES, etc.</u>				
	<u>Standard steel C residential type with top-hung open out window frame (with brass fittings), with burglar bars to opening and fixed sections, consisting of 10mm diameter mild steel round bars to standard NBP2 pattern, welded at intersections and window frames, all as per architect's specification</u>				
2/14/12	Window size 2750 x 2060mm high consisting of 9 x 680 x 680mm top hung opening out panes - W01	No	28		
2/14/13	Window size 2750 x 1370mm high consisting of 8 x 680 x 680mm top hung opening out panes - W01.1	No	6		
2/14/14	Window size 2060 x 2060mm high consisting of 9 x 680 x 680mm top hung opening out panes - W01.2	No	2		
2/14/15	Window size 1370 x 2060mm high consisting of 6 x 680 x 680mm top hung opening out panes - W01.3	No	4		
2/14/16	Window size 680 x 2060mm high consisting of 3 x 680 x 680mm top hung opening out panes - W01.4	No	8		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 14 Metalwork				

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>BALUSTRADES</u>					
<u>HANDRAILS</u>					
<u>Welded balustrading 1200mm high extreme, of handrail comprising 50 x 75 x 3mm thick hollow section at 1600mm centres, 50 x 50 x 3mm hollow section top and bottom rails, 19 x 19mm square vetical uprights at 100mm centres, 150 x 150 x 6mm baseplate with 4 holes for M16 x 100mm expansion bolts fixed to concrete slab</u>					
2/14/22	1200mm high raking balustrade	m	40		
2/14/23	Extra over for rounded closed end	No	2		
2/14/24	Extra over for mitred L-intersection	No	4		
2/14/25	Extra over for T-intersection	No	4		
2/14/26	Extra over for bend	No	2		
<u>Welded balustrading 1050mm high extreme, of handrail comprising 70 x 70 x 2,5mm thick hollow section at 1600mm centres, 40 x 40 x 2,5mm hollow section top and bottom rails, 10mm diameter vetical uprights at 100mm centres, 150 x 150 x 6mm baseplate with 4 holes for M16 x 100mm expansion bolts fixed to concrete slab</u>					
2/14/27	1050mm high horizontal balustrade	m	25		
2/14/28	Extra over for rounded closed end	No	8		
2/14/29	Extra over for mitred L-intersection	No	12		
2/14/30	Extra over for T-intersection	No	12		
2/14/31	Extra over for bend	No	8		
<u>SUNDRY METAL WORK</u>					
Carried Forward				R	
Section No. 2 BUILDER'S WORK Bill No. 14 Metalwork					

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 16</u></p> <p><u>TILING</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 144</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Pricing</u></p> <p>Prices are to included for the following: Supply, cutting, handling, labour, adhesive etc.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 16 Tiling</p>		R	

		Brought Forward			R	
		<p><u>Fixing</u></p> <p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>Ceramic, porcelain, marble and granite tiles are to be fixed, grouted and pointed with suitable adhesives and grouts, as recommended by the Architect. Costs are hereby deemed to include the cost of this requirement.</p> <p>Payment for work that is deemed measurable, in respect of the conditions of contract, and which comprises cutting, leaving, or forming, rectangular holes and notches through tiling is hereby deemed to apply only to holes and notches that do not exceed 600mm girth. Those exceeding 600mm in girth are hereby deemed to be "square cutting", which is hereby deemed to be part of the work description for that type of tiling and is not measurable as a separate item of work.</p> <p><u>Wastage</u></p> <p>Tile wastage is deemed to be included in the rates.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>Note</u></p> <p>All scaffolding should be provided by the contractor and no claims/qualifications will be accepted.</p> <p><u>WALL TILING</u></p> <p><u>150 x 150mm white glazed tiles (PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing white grout all as per manufacturers specifications</u></p>				
2/16/1	Plastered walls	m2	370			
2/16/2	On narrow widths	m2	37			
		Carried Forward			R	
	<p>Section No. 2</p> <p>BUILDER'S WORK</p> <p>Bill No. 16</p> <p>Tiling</p>					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
2/16/3	Splash backs	m2	47		
	<u>FLOOR TILING</u>				
	<u>300 x 300 x 8mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site), includes waste, laying, supply and fixing with an approved adhesive and jointing in waterproof cementitious grout</u>				
2/16/4	On floors	m2	240		
2/16/5	100mm high skirting	m	326		
	<u>ATTIC STOCK</u>				
2/16/6	150 x 150 x mm white glazed tiles(PC allowance of R 120.00/m2 excludes V.A.T. but includes delivery to site)	m2	45		
2/16/7	300 x 300 x 8mm Thick non-slip ceramic tiles (P.C allowance of R 200.00/m2 excludes V.A.T. but includes delivery to site)	m2	24		
	<u>SUNDRIES</u>				
	<u>10mm aluminium corner protector, stair nosings, expansion joint strips, etc</u>				
2/16/8	Tile-in corner protector	m	65		
	<u>10mm aluminium angle</u>				
2/16/9	25 x 25mm Angle to edge of concrete or similarly approved	m	22		
	Carried Forward to Summary of Section No.			R	
	Section No. 2				
	BUILDER'S WORK				
	Bill No. 16				
	Tiling				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 17</u></p> <p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 148</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>uPVC pipes and fittings:</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings:</u></p> <p>Pipes for water supply shall be of the class stated</p> <p><u>Excavations:</u></p> <p>No claim for excavation in material other than "earth" will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling, and has obtained, in writing , authorised classification thereof.</p> <p>"Intermediate material" and " hard rock" shall be as defined in "Earthworks".</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 2 BUILDER'S WORK Bill No. 17 Plumbing and Drainage</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<p>Quantities of all excavations, carting away excavated material and backfilling are calculated on the nett extent to be formed, or filled, in accordance with drawings and specifications, and the Contractor is to allow in his prices for any bulking.</p> <p>Classes of excavation shall be as S.A.B.S 1200D clause 3.1.2.</p> <p><u>Laying, backfilling, bedding, etc., of pipes:</u></p> <p>Pipes shall be laid and bedded, and trenches shall be carefully backfilled, in accordance with the specific instructions</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>RAINWATER GOODS</u></p> <p><u>Approved</u></p> <p><u>Gutters</u></p>				
2/17/1	100 x 100 x 0.6mm thick Ogee profile eaves gutter aluminium box gutter, fixed with and including fixing clips to fascia boards	m	707		
2/17/2	Extra over eaves gutter for stopped end	No	6		
2/17/3	Extra over eaves gutter for corner	No	16		
2/17/4	Extra over eaves gutter for outlet	No	70		
	<u>Rainwater downpipes</u>				
2/17/5	100mm diameter x 0.6mm thick rainwater downpipe with Chromadek finish (Colour: TBC), fixed with and including brackets to wall face, with brackets spaced as per manufacturer's recommendations, and with downpipes spaced as per engineer's specification	m	242		
2/17/6	Extra over downpipe for offset	No	140		
	Carried Forward			R	
	<p>Section No. 2 BUILDER'S WORK Bill No. 17 Plumbing and Drainage</p>				

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>SINKS, etc.</u>				
	<u>"Franke" or simalar approved economy stainless steel double sink including integrated supports and legs, including waste, supply and fixing to walls, counters etc</u>				
2/17/13	1030 x 440 x 388mm stainless steel sink, complete.	No	3		
	<u>"Franke" or similar approved Neptune NEX 621 stainless steel double sink, including waste, supply and fixing to walls, counters etc</u>				
2/17/14	Stainless steel Sink, complete.	No	2		
	<u>"Franke" or similar approved cascade CDX 611 stainless steel single sink, including waste, supply and fixing on walls, counters, etc</u>				
2/17/15	Laboratory sink, installed complete	No	1		
	<u>"Wilstone" or similar approved concrete double wash trough with outlets and two pedestals including waste, supply and fixing to floors, walls, etc</u>				
2/17/16	1400 x 530 x 340mm deep Wash trough	No	1		
	<u>"Wilstone" or similar approved concrete single wash trough with outlets and two pedestals including waste, supply and fixing to floors, walls, etc</u>				
2/17/17	900 x 530 x 340mm deep Wash trough	No	1		
	<u>CHROME PLATED WASTE UNIONS, ETC. (Supply & Fit)</u>				
2/17/18	38mm Sink waste union	No	11		
	<u>TOILET ROLL HOLDER</u>				
	<u>Approved</u>				
2/17/19	130 x 560 x 130mm mild steel vandal proof Toilet paper roll holder (Colour: White), plugged and screwed to walls	No	31		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 17 Plumbing and Drainage				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>SOAP HOLDER</u>				
	<u>Approved</u>				
2/17/20	Standard 150 x 150mm white glazed soap holder, with lever button and pump, plugged and screwed to wall	No	36		
	<u>PAPER TOWEL DISPENSER</u>				
	<u>Approved</u>				
2/17/21	360 x 380 x 240mm high lockable auto-cut (reflex) plastic Paper towel dispenser (Colour: White), plugged and screwed to wall	No	2		
	<u>TAPS, VALVES, ETC</u>				
	<u>Approved</u>				
2/17/22	Sink Mixer (PC allowance of R850.00/no excludes V.A.T. but includes delivery to site), includes waste, supply and fixing	No	6		
2/17/23	15mm Cobra brass watertight hose Bib tap (Code: 108-15)	No	41		
2/17/24	15mm Cobra Watertech chrome plated single tap hole Sink mixer with overarm swivel sprout (Code: 3396ST)	No	41		
	<u>DRINKING FOUNTAIN</u>				
	<u>"Stercon" or similar approved standard drinking fountain including all plumbing and drainage, fixed to paved areas all in accordance with manufacturer's recommendations</u>				
2/17/25	500mm diameter drinking fountain, 1,000mm high	No	1		
	<u>TESTING</u>				
2/17/26	Testing water pipe system		Item		
	Carried Forward to Summary of Section No.			R	
	Section No. 2				
	BUILDER'S WORK				
	Bill No. 17				
	Plumbing and Drainage				

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 19</u></p> <p><u>PAINTWORK</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 152</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>PAINTWORK TO PREVIOUS PAINTED</u></p> <p><u>FLOATED PLASTER</u></p> <p><u>Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)</u></p>			
2/19/1	On internal walls	m2	1 265	
	<p><u>FIBRE CEMENT</u></p>			
	<p>Carried Forward</p>		R	
	<p>Section No. 2 BUILDER'S WORK Bill No. 19 Paintwork</p>			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)</u>				
2/19/2	On fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	136		
	<u>Prepare and apply one coat alkali resistant sealer and two coats matt enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/3	On fibre cement window sill not exceeding 300mm high or wide	m	86		
	<u>METAL SURFACES</u>				
	<u>Prepare and apply one coat zinc chromate primer and two coats gloss enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/4	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	34		
2/19/5	On window frames	m2	600		
2/19/6	On downpipes	m	136		
	<u>Prepare and apply two coats of anti-corrosive paint and two coats enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/7	On mild steel columns, beams, etc	m2	68		
	<u>WOOD</u>				
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA (Colour: to be confirmed by Architect)</u>				
2/19/8	On door	m2	46		
	<u>Prepare and paint three coats clear varnish</u>				
2/19/9	On door	m2	54		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 19 Paintwork				

	Brought Forward			R	
	<u>PAINTWORK ETC TO NEW WORK</u>				
	<u>FLOATED PLASTER</u>				
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)</u>				
2/19/10	On internal walls	m2	2 128		
	<u>SMOOTH CONCRETE</u>				
	<u>One coat solvent-based alkali resistant primer and two coats enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/11	On precast window surrounds	m2	1 111		
	<u>PLASTERBOARD</u>				
	<u>Prepare and apply one coat universal undercoat and two coats eggshell paint with matt finish or similar approved (Colour: to be confirmed by Architect)</u>				
2/19/12	On internal ceilings and cornices	m2	1 519		
	<u>FIBRE CEMENT</u>				
	<u>Prepare and apply one coat universal undercoat and two coats acrylic PVA paint with matt finish or similar approved (Colour: to be confirmed by Architect)</u>				
2/19/13	On internal ceilings and cornices	m2	1 275		
2/19/14	On fibre cement fascias boards not exceeding 300mm high or wide painted on both side	m	743		
	<u>Prepare and apply one coat alkali resistant sealer and two coats mat enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/15	On fibre cement window sill not exceeding 300mm high or wide	m	112		
	Carried Forward			R	
	Section No. 2 BUILDER'S WORK Bill No. 19 Paintwork				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward			R	
<u>METAL SURFACES</u>				
<u>Prepare and apply one coat zinc chromate primer, and two coats gloss enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/16	On gates, grilles, burglar screens, balustrades, etc (both sides measured on full flat area)	m2	67	
2/19/17	On window frames	m2	203	
2/19/18	On door frames	m2	240	
2/19/19	On gutters	m	707	
2/19/20	On downpipes	m	249	
<u>Prepare and apply two coats of anti-corrosive paint and two coats enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/21	On mild steel columns, beams, etc	m2	218	
<u>WOOD</u>				
<u>Prepare and paint three coats clear varnish</u>				
2/19/22	On door	m2	168	
<u>Two coats clear eggshell polyurethane varnish</u>				
2/19/23	On meranti skirting	m	1 131	
<u>One coat universal undercoat and two coats enamel paint (Colour: to be confirmed by Architect)</u>				
2/19/24	On meranti cornice	m	1 242	
Carried Forward to Summary of Section No.			R	
Section No. 2				
BUILDER'S WORK				
Bill No. 19				
Paintwork				

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
3/1/3	Removal of topsoil to a nominal depth of 150 mm and stockpile. Allow a freehaul distance of 5km to stockpile site. (NO OVERHAUL WILL BE PAID)	m3	1 500		
	<u>Dismantle and Dispose of Pipelines: dismantle, lift ,transport and dispose off- site at a location to be determined by the contractor. (excavation measures elsewhere)</u>				
3/1/4	25mm up to 50mm ø plastic water pipe	m	50		
3/1/5	110mm ø plastic sewer pipe	m	50		
	<u>Dismantle and Dispose of Manholes: dismantle, lift ,transport and dispose off- site at a location to be by the contractor</u>				
3/1/6	1,0 m to 1,5 m deep	No	2		
3/1/7	1,5 m to 2,0 m deep	No	1		
	<u>Dismantle and Dispose of Concrete: dismantle/ break-out, lift ,transport and dispose off- site at a location to be determined by the contractor. (excavation measures elsewhere)</u>				
3/1/8	Existing 450mm wide concrete stormwater channeling around building aprons	m	120		
3/1/9	Existing kerbing around paving	m	140		
	<u>Dismantle and Dispose of Steel Structures: dismantle, lift ,transport and dispose off- site at a location to be determined by the contractor.</u>				
3/1/10	6.0m high conventional steel lattice support structure for an elevated plastic 10kl water tank	No	4		
	<u>Dismantle and store on-site for later re-use: dismantle, lift ,transport and stockpile on- site at a location to be determined by the engineer.</u>				
3/1/11	10KI Plastic Jojo tanks and associated plastic fittings	No	4		
3/1/12	5KI Plastic Jojo tanks and associated plastic fittings	No	2		
Carried Forward				R	
Section No. 3 CIVIL WORK Bill No. 1 Site Clearance					

TENDER NO: RFP 244/2022

3/3

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 2</u></p> <p><u>WATER RETICULATION</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 146</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract.</p> <p><u>EARTHWORKS (PIPE TRENCHES)</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 CIVIL WORK Bill No. 2 Water Reticulation</p>		R	

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Pipeline. Supply, handle, lay, joint, bed (flexible pipe bedding) and test HDPE & PVCU pressure pipes to SANS 4427 & SANS 966 with spigot and socket joints (UPVC) & compression fittings (HDPE)</u>					
3/2/9	25mm ø HDPE PE100 Class 9	m	90		
3/2/10	25mm ø HDPE PE100 Class 16	m	155		
3/2/11	32mm ø HDPE PE100 Class 16	m	50		
3/2/12	63mm ø UPVC Class 9	m	400		
3/2/13	110mm ø UPVC Class 16	m	460		
<u>Fittings</u>					
<u>Extra over for supply lay joint bed Class 16 specials and fittings:</u>					
3/2/14	63mm ø Equal Tee	No	4		
3/2/15	110mm ø Equal Tee	No	5		
<u>Bends (Long Radius)</u>					
3/2/16	63mm ø x 11.25°	No	2		
3/2/17	63mm ø x 45°	No	2		
3/2/18	63mm ø x 90°	No	12		
3/2/19	110mm ø x 11.25°	No	2		
3/2/20	110mm ø x 45°	No	2		
3/2/21	110mm ø x 90°	No	12		
<u>Saddles</u>					
3/2/22	63mm x 25mm	No	10		
3/2/23	110mm x 25mm	No	10		
Carried Forward				R	
Section No. 3 CIVIL WORK Bill No. 2 Water Reticulation					

	Brought Forward			R	
	<u>Compression fittings</u>				
3/2/24	Male adaptor 25mm	No	20		
3/2/25	25mm ø x 90°	No	4		
3/2/26	25mm ø equal Tee	No	1		
3/2/27	32mm ø x 90°	No	8		
3/2/28	32mm ø equal Tee	No	1		
	<u>Valves: Extra over item 3.3.1 and 3.3.2 supply lay joint Class 16 valves</u>				
	<u>Socket Ended Isolation Valves for PVCU pipes</u>				
3/2/29	63mm ø	No	6		
	<u>Stainless Steel Isolating Ball-valves and fittings</u>				
3/2/30	25mm ø	No	10		
3/2/31	32mm ø	No	3		
	<u>Ancillaries</u>				
3/2/32	Anchor / Thrust Blocks Class 15/19 Concrete	m3	2		
3/2/33	Class 15/19 concrete encasing where required (Provisional Item)	m3	2		
	<u>Valve Chambers: Supply and install valve chamber, up to 1.25m deep, complete for:</u>				
3/2/34	63 mm ø Valves	No	6		
	<u>Valve Box: Supply and install square plastic valve box and incl. concrete base</u>				
3/2/35	25 & 32 mm ø Valves	No	13		
	Carried Forward to Summary of Section No.			R	
	Section No. 3				
	CIVIL WORK				
	Bill No. 2				
	Water Reticulation				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>SEWER RETICULATION</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 146</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract.</p> <p><u>EARTHWORKS (PIPE TRENCHES)</u></p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 CIVIL WORK Bill No. 3 Sewerage Reticulation</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R
<u>Excavation & Backfill. Excavate in all materials, form and compact the bedding cradle and blanket in 150 mm layers to 90% mod AASHTO to 300 mm above the top of the pipe and backfill the balance compacted to 90% mod AASHTO and dispose of surplus material off site at a location identified by the Contractor. Allow freehaul distance of 5km: (NO OVERHAUL WILL BE PAID)</u> <u>Side allowance on each side, 300mm</u>				
<u>For 110mm diam pipe</u>				
	over	up to		
3/3/1	1,0m	1,5 m	m	115
3/3/2	1,5 m	2,0 m	m	20
<u>For 160mm diam pipe</u>				
	over	up to		
3/3/3	0,5m	1,0 m	m	15
3/3/4	1,0m	1,5 m	m	55
3/3/5	1,5 m	2,0 m	m	95
3/3/6	2,0 m	2,5 m	m	2
<u>Extra over items 4.1.1 to 4.1.4 for excavation in the following materials: (Provisional Item)</u>				
3/3/7	Hard		m3	20
3/3/8	Intermediate		m3	140
3/3/9	Excavate unsuitable material from trench bottom and dispose thereof (Provisional item)		m3	30
<u>Extra over items 4.1.1 to 4.1.6 for the provision of backfill material for fill above the selected fill blanket complying with SANS 1200 DB</u>				
3/3/10	Commercial or off site sources by the Contractor		m3	185
Carried Forward				R
Section No. 3 CIVIL WORK Bill No. 3 Sewerage Reticulation				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Extra over items 4.1.1 to 4.1.6 for compaction of backfill in 150 mm layers to the following densities:</u>					
3/3/11	93% Mod AASHTO	m3	35		
<u>BEDDING (PIPES)</u>					
<u>Provision of bedding from commercial sources only where ordered by Engineer:</u>					
3/3/12	Selected granular material	m3	106		
3/3/13	Selected fill material	m3	60		
<u>SEWERS</u>					
<u>Pipework. Supply, handle, lay, joint, bed the following sewer pipes:</u>					
3/3/14	110 mm ø uPVC Class 34 Sewer pipe	m	135		
3/3/15	160 mm ø uPVC Class 34 Sewer pipe	m	167		
<u>MANHOLES</u>					
<u>Precast concrete manholes to SANS 1294 including excavation and backfill, complete with benching, channelling, cover and frame, spacer, adaptor slabs, step irons, for:</u>					
<u>1000 mm ID Chamber for 160 mm ø pipes</u>					
	over	up to			
3/3/16	0,5 m	1,0 m	No	2	
3/3/17	1,0 m	1,5 m	No	11	
3/3/18	1,5 m	2,0 m	No	3	
<u>Sundries</u>					
3/3/19	Concrete encasing to pipes in grade 20 MPa concrete including cost of excavation shuttering etc (Provisional Item)	m3	10		
Carried Forward				R	
Section No. 3 CIVIL WORK Bill No. 3 Sewerage Reticulation					

TENDER NO: RFP 244/2022

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u> <u>BILL NO. 4</u> <u>PAVED ROADS, WALKWAYS AND PARKING</u> <u>CPAP WORK GROUP</u> Unless otherwise stated all items in this bill will be Work Group 154 <u>PREAMBLES</u> NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill. <u>SUPPLEMENTARY PREAMBLES</u> Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill. <u>GENERAL NOTES TO TENDERERS</u> General notes, described in Bill No.1, shall equally apply to this Bill. The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract. <u>SITE CLEARANCE (measured elsewhere)</u> <u>Earthworks</u> 3/4/1 Cut to spoil off site in soft material for layerworks. All disposal of material is freehaul - overhaul not applicable. m3 1 060 <div>Carried Forward</div> <div>R</div> Section No. 3 CIVIL WORK Bill No. 4 Paved Roads, Walkways and Parki			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Earthworks (Roads and Subgrade)</u>				
3/4/2	Construct the lower subgrade by scarifying in-situ material to a depth of 150mm and recompacting to a minimum density of 90% mod. AASHTO	m3	336		
	<u>SUBBASE</u>				
	<u>150mm G7 layer compacted to 93 % mod. AASHTO maximum density:</u>				
3/4/3	Imported from commercial sources	m3	336		
	<u>SECTION : BASE</u>				
	<u>G5 material placed in layers not exceeding 150mm using material from a commercial source complying with the specification for unstabilised base (ie PI,11, GM.1,5 and CBR @ 95% Mod AASHTO density >45%, linear shrinkage <4) for the following layer:</u>				
3/4/4	150 mm for paved roads and parking lots	m3	336		
3/4/5	Extra over item 9.3.1 for stabilising upper subbase material using 3% OPC by mass	m3	336		
3/4/6	Extra over for stabilising agent	t	13.44		
	<u>SEGMENTED PAVING</u>				
	<u>Construct segmented block paving complete including supplying, placing, all required cutting and compacting the blocks on 20 mm sand bedding layer, filling gaps, filling joints, locking up the pavement and removing excess sand using:</u>				
3/4/7	60 mm thick interlocking type SA Class 25 blocks for aprons and walkways	m2	1 590		
3/4/8	80 mm thick interlocking type SA Class 25 blocks for paved roads and parking lots	m2	650		
	Carried Forward			R	
	Section No. 3 CIVIL WORK Bill No. 4 Paved Roads, Walkways and Parki				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward			R	
	<u>Supply lay and joint concrete kerbing, Fig 12 Paving Kerbs to SANS 927- 25 MPa strength precast concrete including 15 MPa insitu concrete haunching</u>			
3/4/9	Straights and curves over 10 m radius	m	635	
	<u>Supply lay and joint concrete kerbing, Fig 3 Barrier Kerbs to SANS 927- 25 MPa strength precast concrete including continous 15 MPa insitu concrete bed and haunch on top of subbase</u>			
3/4/10	Straights and curves over 10 m radius	m	130	
3/4/11	Curves between 1m and 10m radius	m	55	
3/4/12	Cast-in-situ concrete edge beam (200mm x 200mm), minimum reinforcement. Rate includes excavation, trimming, formwork 15/19 concrete and steel reinforcing.	m	20	
Carried Forward to Summary of Section No.			R	
Section No. 3				
CIVIL WORK				
Bill No. 4				
Paved Roads, Walkways and Parki				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 5</u></p> <p><u>STORMWATER DRAINAGE</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 146</p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 150</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 3 CIVIL WORK Bill No. 5 Stormwater drainage</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>EARTHWORKS</u>				
3/5/1	Restricted Excavation Excavate in all materials for manholes, kerb inlets, headwalls, trapezoidal drains, gabions and the like (over and above the quantities measured for trench excavation), backfill the balance of the excavation, placing material in 150mm layers compacted to 90% Mod AASHTO using selected material from the excavation. All surplus and unsuitable material to be spoiled off site at a location to be provided by the Engineer. (Allow 5km freehaul)	m3	150		
	<u>KERBING AND CHANNELLING</u>				
3/5/2	Supply and install, pre-cast half round channel (140d x 450w) including haunching and grouting. Van-stone D11 type or similar approved	m	480		
3/5/3	Cast in-situ Inlet and outlet transitions from channels (450mm internal width to 650mm, over length 650mm)	No	15		
	<u>GABIONS AND PITCHING</u>				
3/5/4	Galvanised wire reno mattresses complete with stone / rock fill. Mattress baskets (2m x 1m x 0.3m). Mesh size 60mm	m3	18		
3/5/5	Bidim A6 geotextile or similar approved	m2	65		
	Carried Forward to Summary of Section No.			R	
	Section No. 3				
	CIVIL WORK				
	Bill No. 5				
	Stormwater drainage				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 6</u></p> <p><u>BULK EARTHWORKS</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 104</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract.</p> <p><u>EARTHWORKS</u></p> <p><u>Cut to spoil off site in soft material. All disposal of material is freehaul - overhaul not applicable.</u></p>			
3/6/1	Under building footprint for soil replacement	m3	350	
3/6/2	Site leveling and shaping	m3	1 080	
	Carried Forward		R	
	<p>Section No. 3</p> <p>CIVIL WORK</p> <p>Bill No. 6</p> <p>Bulk Earthworks</p>			

TENDER NO: RFP 244/2022

3/18

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 7</u></p> <p><u>CONSERVANCY TANKS</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 146</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract.</p> <p><u>EARTHWORKS</u></p>			
3/7/1	Cut to spoil off site in soft material. All disposal of material is freehaul - overhaul not applicable.	m3	600	
3/7/2	Cut to stockpile on site in soft material, and use as backfill compacted to 90% in 150mm layers - overhaul not applicable.	m3	1 050	
	Carried Forward		R	
	Section No. 3 CIVIL WORK Bill No. 7 Conservancy Tanks			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Extra over item 8.3.1 for excavation in the following material:</u>				
3/7/3	Hard	m3	495		
3/7/4	Intermediate	m3	600		
	<u>Import to fill G5 quality material including haul placing in layers not exceeding 150 mm thick layers and compacting to 98% Mod AASHTO density from:</u>				
3/7/5	Commercial sources	m3	450		
	<u>Construct the lower subgrade by scarifying in-situ material to a depth of 150 mm and recompacting to a minimum density of :</u>				
3/7/6	93% Mod AASHTO	m3	24		
	<u>CONCRETE (STRUCTURAL)</u>				
	<u>Formwork</u>				
	<u>Rough walls below ground</u>				
3/7/7	Vertical, for external walls of tanks	m2	150		
	<u>Smooth vertical plane to:</u>				
3/7/8	Internal tank walls	m2	105		
3/7/9	Internal tank columns (400mm x 400mm)	m2	12		
	<u>Smooth horizontal plane to:</u>				
3/7/10	Soffit (i.e. base) of reservoir roof	m2	75		
	<u>Vertical narrow widths:</u>				
3/7/11	250mm wide, around bases of tanks	m	72		
3/7/12	150mm wide, around column heads	m	9		
3/7/13	400mm wide, around and inside sumps of tanks	m	18		
	<u>Box out holes/form voids</u>				
	Carried Forward			R	
	Section No. 3 CIVIL WORK Bill No. 7 Conservancy Tanks				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
	<u>Small, circular up to 0,35 m diam.: depths over and up to</u>				
3/7/14	0 m - 0,5 m	No	3		
	<u>Large, other shapes, area 0,1 - 0,5 m2 : depths over and up to</u>				
3/7/15	0 m - 0,5 m	No	12		
	<u>Reinforcement</u>				
	<u>High-tensile steel bars</u>				
3/7/16	a) 10 mm	t	3.00		
3/7/17	b) 12 mm	t	3.00		
3/7/18	c) 16 mm	t	3.00		
	<u>High-tensile welded mesh reinforcement</u>				
3/7/19	Type reference 193	m2	60		
	<u>Concrete</u>				
	<u>Blinding layer class 15/19 concrete</u>				
3/7/20	75 mm minimum thickness	m2	108		
	<u>Cast in-situ class 30/19 concrete</u>				
3/7/21	Tank roofs	m3	24		
3/7/22	Tank walls	m3	33		
3/7/23	Tank Bases	m3	30		
	<u>Cast in-situ class 30/10 concrete</u>				
3/7/24	Columns	m3	3		
3/7/25	Mass concrete class 15/19 concrete	m3	15		
	<u>Unformed Surface Finishes</u>				
Carried Forward				R	
Section No. 3 CIVIL WORK Bill No. 7 Conservancy Tanks					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward				R	
	<u>Wood-floated finish</u>					
3/7/26	Roofs of tank	m2	90			
3/7/27	Bases of tanks	m2	120			
	<u>Steel-floated finish</u>					
3/7/28	Screeds to fall on base of tanks	m2	75			
	<u>Sundry items</u>					
	<u>SEWERS</u>					
	<u>Manholes. 230 brickwork manholes complete with brickforce, cover slab, lockable sealed cover and frame, spacer, and step irons, as shown on the Conservancy tank drawings.</u>					
	<u>600mm x 600mm internal dimensions, for depths:</u>					
	over	up to				
3/7/29	0,5 m	1,0 m	No	6		
	<u>Pipework. Supply, handle, lay, joint, bed the following sewer pipes:</u>					
3/7/30	315 mm ø uPVC Class 51 Sewer pipe	m	36			
	<u>Pipework Baffles</u>					
3/7/31	315 mm ø uPVC Class 51 Y-junction	No	6			
3/7/32	160 mm ø uPVC Class 51 Y-junction	No	3			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 8</u></p> <p><u>BUDGETARY ALLOWANCES</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Civil Works has been measured in accordance with the latest SANS 1200 "Standard Specifications for Civil Engineering Construction" series, published by the South African Bureau of Standards. All definitions, materials, testing requirements, tolerances, measurement, and payment clauses associated with this series are applicable to the Civil Works portion of the Contract.</p> <p><u>SUMS STATED PROVISIONALLY BY ENGINEER</u></p> <p><u>Testing</u></p> <p>3/8/1 Provide the sum of R25 000.00 (Twenty Five Thousand) for additional testing (and or surveys) over and above that which is required by SANS 1200</p> <p><u>Municipal Connections</u></p> <p>3/8/2 Provide the sum of R20 000.00 (Twenty Thousand) for municipal connection alteration and metering</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 3 CIVIL WORK Bill No. 8 Budgetary Allowances</p>			
		Item		25 000.00
		Item		20 000.00
			R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
	<u>Ancillary Works</u>			
3/8/3	Provide the sum of R20 000.00 (Twenty Thousand) for ancillary works for interface between internal existing reticulation and new reticulation	Item		20 000.00
	<u>Fire Booster Pump House</u>			
3/8/4	Provide the sum of R300 000.00 (Three Hundred Thousand) for fire booster pump-house and combined tower base	Item		300 000.00
	<u>Alterations to existing conservancy tank</u>			
3/8/5	Provide the sum of R50 000.00 (Fifty Thousand) for alterations to existing conservancy tanks	Item		50 000.00
	<u>Remedial Works</u>			
3/8/6	Provide the sum of R170 000.00 (One Hundred and Seventy Thousand) for remedial works to existing aprons, existing channels and existing paved road	Item		170 000.00
	<u>Road Markings and Signage</u>			
3/8/7	Provide the sum of R50 000.00 (Fifty Thousand) for road markings and signage	Item		50 000.00
	<u>External Road Alterations</u>			
3/8/8	Provide the sum of R150 000.00 (One Hundred and Fifty Thousand) for external road alterations (lay-byes,service entrances etc.)	Item		150 000.00
	<u>Existing Services</u>			
3/8/9	Provide the sum of R10 000.00 (Ten Thousand) for temporary works to existing services	Item		10 000.00
	Carried Forward to Summary of Section No.		R	
	Section No. 3			
	CIVIL WORK			
	Bill No. 8			
	Budgetary Allowances			

TENDER NO: RFP 244/2022

3/25

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 1</u></p> <p><u>LOW VOLTAGE DISTRIBUTION INSTALLATION</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 160</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>DISTRIBUTION BOARDS</u></p> <p>Specified equipment installed and connected, prewired main busbars of HCHD copper to match main switch rating, all metal work, frame (where required), chassis, panel, doors painted in the specified colour, neutral and earth bars, busbars for earth leakage relays and for sub-section as detailed, legend cards, gland plates, etc, as per specifications, including connections, terminating, testing and commissioning</p> <p>Refer to Drawing: Electrical layouts</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 4 ELECTRICAL WORK Bill No. 1 Low Voltage Distribution Installation</p>		R	

TENDER NO: RFP 244/2022

4/2

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Floor Standing Metering Kiosk DB-M: Metering Kiosk Floor Standing kiosk c/w Kwh meter and outgoing circuits - As per specification. Powder Coated</u>				
4/1/11	Supply	No	1		
4/1/12	Install	No	1		
	<u>Floor Standing Lighting Kiosk : Lighting Kiosks Floor Standing lighting kiosk c/w incomer 20A/400V CB, Outgoing circuits - As per specification.</u>				
4/1/13	Supply	No	2		
4/1/14	Install	No	2		
	<u>Existing Classroom Db's to be refurbished, new circuits to be added and new 6KA cb's must be installed as per SANS standards requirements CoC's</u>				
4/1/15	Supply	No	5		
4/1/16	Install	No	5		
	<u>CABLES</u>				
	<u>Supply and installation of 600/1000V PVC/PVC/SWA/PVC/Cu cable in shaft, sleeve, trench, on cable rack or on surface, including strapping or clamping, supports, etc. 400/1000V Aluminium Self supporting Aerial Bundle Cable + N/E insulated support conductors including mounting brackets for strain fittings, mounting brackets for suspension fittings etc.</u>				
	<u>4 mm² x 3core</u>				
4/1/17	Supply	m	196		
4/1/18	Install	m	196		
	<u>6 mm² x 3 core</u>				
4/1/19	Supply	m	249		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 1 Low Voltage Distribution Installation				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
4/1/20	Install	m	249		
	<u>10 mm² x 3 core</u>				
4/1/21	Supply	m	1 880		
4/1/22	Install	m	1 880		
	<u>6 mm² x 4 core</u>				
4/1/23	Supply	m	184		
4/1/24	Install	m	184		
	<u>10 mm² x 4 core</u>				
4/1/25	Supply	m	88		
4/1/26	Install	m	88		
	<u>35 mm² x 4 core</u>				
4/1/27	Supply	m	38		
4/1/28	Install	m	38		
	<u>50 mm² x 4 core</u>				
4/1/29	Supply	m	112		
4/1/30	Install	m	112		
	<u>CABLE TERMINATIONS</u>				
	<u>Terminate and connect 600/1000V PVC/SWA/PVC/Cu cable including drilling, bolting, lugs, number tags, core markers, gland, shroud, etc. 400/1000V Aluminium Self supporting Aerial Bundle Cable + N/E insulated support conductors including mounting brackets for strain fittings, mounting brackets for suspension fittings etc.</u>				
	<u>4 mm² x 3core</u>				
4/1/31	Supply	No	12		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 1 Low Voltage Distribution Installation				

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>4 mm² Bare copper conductor</u>				
4/1/45	Supply	m	184		
4/1/46	Install	m	184		
	<u>6 mm² Bare copper conductor</u>				
4/1/47	Supply	m	88		
4/1/48	Install	m	88		
	<u>25 mm² Bare copper conductor</u>				
4/1/49	Supply	m	38		
4/1/50	Install	m	38		
	<u>35 mm² Bare copper conductor</u>				
4/1/51	Supply	m	112		
4/1/52	Install	m	112		
	<u>EARTH TERMINATIONS</u>				
	<u>Terminate and connect earth conductor including lug, bolt, nut, etc.</u>				
	<u>4 mm² Bare copper conductor</u>				
4/1/53	Supply	No	4		
4/1/54	Install	No	4		
	<u>6 mm² Bare copper conductor</u>				
4/1/55	Supply	No	4		
4/1/56	Install	No	4		
	<u>25 mm² Bare copper conductor</u>				
4/1/57	Supply	No	2		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 1 Low Voltage Distribution Installation				

TENDER NO: RFP 244/2022

4/7

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>400x450x440mm Deep manhole for v/d & electronic services complete with water-tight steel cover</u>				
4/1/71	Supply	m	12		
4/1/72	Install	m	12		
	<u>EXCAVATIONS AND BACKFILLING</u>				
	<u>Excavate, backfill and soil compaction cable trenches 400mm wide x 800mm deep in the following soil conditions:</u>				
4/1/73	600 Deep x 400 wide trench in pickable soil	m3	192		
4/1/74	600 Deep x 400 wide trench in pickable shale	m3	48		
4/1/75	600 Deep x 400 wide trench in soft rock	m3	29		
4/1/76	600 Deep x 400 wide trench in hard rock	m3	37		
	<u>TESTING AND COMMISSIONING</u>				
4/1/77	Testing and commissioning of the entire electrical work contained in this Bill_CoC's.			SUM	
	Carried Forward to Summary of Section No.			R	
	Section No. 4				
	ELECTRICAL WORK				
	Bill No. 1				
	Low Voltage Distribution Installation				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 2</u></p> <p><u>SMALL POWER INSTALLATION</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 160</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Refer to Drawing: Power Layout:</p> <p><u>CONDUIT</u></p> <p><u>Supply and installation of SABS approved PVC conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u></p> <p><u>20mm Conduit</u></p>			
4/2/1	Supply	m	1 909	
4/2/2	Install	m	1 909	
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 4 ELECTRICAL WORK Bill No. 2 Small power Installation</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R
	<u>25mm Conduit</u>			
4/2/3	Supply	m	472	
4/2/4	Install	m	472	
	<u>32mm Conduit</u>			
4/2/5	Supply	m	84	
4/2/6	Install	m	84	
	<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>			
	<u>20mm Galvanised conduit</u>			
4/2/7	Supply	m	42	
4/2/8	Install	m	42	
	<u>25mm Galvanised conduit</u>			
4/2/9	Supply	m	28	
4/2/10	Install	m	28	
	<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>			
	<u>CONDUIT BOXES</u>			
	<u>100 x 100 x 50mm Outlet box</u>			
4/2/11	Supply	No	108	
4/2/12	Install	No	108	
	<u>100 x 50 x 50mm Outlet box</u>			
4/2/13	Supply	No	18	
4/2/14	Install	No	18	
	Carried Forward			R
	Section No. 4 ELECTRICAL WORK Bill No. 2 Small power Installation			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>60mm Round outlet box</u>				
4/2/15	Supply	No	52		
4/2/16	Install	No	52		
	<u>60mm Diameter cover plate</u>				
4/2/17	Supply	No	52		
4/2/18	Install	No	52		
	<u>100 x 100 Blank cover plates</u>				
4/2/19	Supply	No	12		
4/2/20	Install	No	12		
	<u>100 x 50 Blank cover plates</u>				
4/2/21	Supply	No	11		
4/2/22	Install	No	11		
	<u>Draw wires drawn into conduit</u>				
4/2/23	Supply	m	2 402		
4/2/24	Install	m	2 402		
	<u>FITTINGS AND ACCESSORIES</u>				
	<u>Supply and installation of power outlets and accessories complete with labelling, cradles, including all holes, drilling, etc.</u>				
	<u>Combination Socket Outlet c/w 16A Single Socket Outlet & Euro-Plug with earth pin socket outlet</u>				
4/2/25	Supply	No	102		
4/2/26	Install	No	102		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 2 Small power Installation				

TENDER NO: RFP 244/2022

4/12

TENDER NO: RFP 244/2022

4/13

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Supply and installation of trunking channel as per specification and drawings complete with mounting brackets, hangers, cover plates, splices, knock-outs, painting, etc.</u>				
	<u>P9000 Trunking [pre-galvanised]</u>				
4/2/51	Supply	m	210		
4/2/52	Install	m	210		
	<u>P9000 cross overs</u>				
4/2/53	Supply	m	2		
4/2/54	Install	m	2		
	<u>P9000 90 deg. Bends</u>				
4/2/55	Supply	No	8		
4/2/56	Install	No	8		
	<u>P9000 "T" pieces</u>				
4/2/57	Supply	No	2		
4/2/58	Install	No	2		
	<u>P9000 end caps</u>				
4/2/59	Supply	No	6		
4/2/60	Install	No	6		
	<u>WELDED WIREMESH</u>				
	<u>Supply and installation of pre-galvanised medium duty welded wire mesh cable tray, complete with all accessories, support brackets, splices, etc.</u>				
	<u>300 Wide welded wire mesh cable tray</u>				
4/2/61	Supply	m	42		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 2 Small power Installation				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
4/2/62	Install	m	42		
	<u>300 Wide welded wire mesh cable tray 90 deg. Bends</u>				
4/2/63	Supply	No	1		
4/2/64	Install	No	1		
	<u>300 Wide welded wire mesh externa/internal elbow</u>				
4/2/65	Supply	No	2		
4/2/66	Install	No	2		
	<u>300 Wide welded wire mesh cross-overs</u>				
4/2/67	Supply	m	1		
4/2/68	Install	m	1		
	<u>CONDUCTORS</u>				
	<u>Supply and installation of 600/1000V PVC insulated copper conductors into conduit, trunking or powerskirting, including conductor identification labels, terminating, etc.</u>				
	<u>2.5 mm² conductor</u>				
4/2/69	Supply	m	1 210		
4/2/70	Install	m	1 210		
	<u>4 mm² conductor</u>				
4/2/71	Supply	m	4 976		
4/2/72	Install	m	4 976		
	<u>Supply and installation of bare copper earth conductor into conduit, trunking, etc.</u>				
	<u>2.5 mm² conductor</u>				
4/2/73	Supply	m	2 488		
	Carried Forward			R	
	Section No. 4				
	ELECTRICAL WORK				
	Bill No. 2				
	Small power Installation				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
4/2/74	Install	m	2 488		
	<u>1.5 mm² conductor</u>				
4/2/75	Supply	m	605		
4/2/76	Install	m	605		
	<u>APPLIANCE CONNECTIONS</u>				
	<u>Supply and installation of flexible steel connections complete with adaptors, locknuts, bushes, labeling, etc. not exceeding 2 meters or approved termination kit</u>				
	<u>Geyser</u>				
4/2/77	Install	No	3		
	<u>600 x 600 x 150 Deep flush draw-boxes with timber backing and lockable doors</u>				
4/2/78	Supply	No	1		
4/2/79	Install	No	1		
	<u>EARTHING AND BONDING</u>				
4/2/80	Allow for earthing and bonding of the entire electrical installation as required by the Code of Practice			SUM	
	<u>TESTING AND COMMISSIONING</u>				
4/2/81	Testing and commissioning of the entire electrical installation contained in this Bill.			SUM	
	Carried Forward to Summary of Section No.			R	
	Section No. 4				
	ELECTRICAL WORK				
	Bill No. 2				
	Small power Installation				

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 3</u></p> <p><u>LIGHTING INSTALLATION</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 160</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Refer to Drawing: Lighting Layout</p> <p><u>CONDUIT</u></p> <p><u>Supply and installation of SABS approved PVC conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u></p> <p><u>20mm Conduit</u></p>			
4/3/1	Supply	m	3 699	
4/3/2	Install	m	3 699	
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 4 ELECTRICAL WORK Bill No. 3 Lighting installation</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles cutting, painting, etc.</u>					
<u>20mm Conduit</u>					
4/3/3	Supply	m	322		
4/3/4	Install	m	322		
<u>CONDUIT BOXES</u>					
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>60mm Round outlet box</u>					
4/3/5	Supply	No	461		
4/3/6	Install	No	461		
<u>100 x 100 x 50mm Outlet box</u>					
4/3/7	Supply	No	69		
4/3/8	Install	No	69		
<u>100 x 50 x 50mm Outlet box</u>					
4/3/9	Supply	No	102		
4/3/10	Install	No	102		
<u>60mm Round cover plate</u>					
4/3/11	Supply	No	152		
4/3/12	Install	No	152		
<u>100 x 50mm cover plate</u>					
4/3/13	Supply	No	34		
4/3/14	Install	No	34		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 3 Lighting installation					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>100 x 100mm cover plate</u>				
4/3/15	Supply	No	69		
4/3/16	Install	No	69		
	<u>Draw wires drawn into conduit</u>				
4/3/17	Supply	m	3 992		
4/3/18	Install	m	3 992		
	<u>LUMINAIRES</u>				
	<u>The supply & installation of light fittings, recessed or surface mounted to ceiling, onto walls or floor mounted.</u>				
	<u>Type S1</u>				
	<u>Surface Mounted 1200X600 60W LED PANEL fitting</u>				
4/3/19	Supply	No	10		
4/3/20	Install	No	10		
	<u>Type S2</u>				
	<u>Surface Mounted 1200X200 36W LED CHANNEL fitting (Similar to Batten)</u>				
4/3/21	Supply	No	139		
4/3/22	Install	No	139		
	<u>Type B1</u>				
	<u>Surface mounted 10W LED round bulkhead acrylic diffuser</u>				
4/3/23	Supply	No	82		
4/3/24	Install	No	82		
	<u>Type B2</u>				
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 3 Lighting installation				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>Surface mounted 10W LED round bulkhead acrylic diffuser</u>				
4/3/25	Supply	No	65		
4/3/26	Install	No	65		
	<u>Type P1</u>				
	<u>Post-top 55W LED luminaire c/w 4m mounting Fibreglass Pole</u>				
4/3/27	Supply	No	10		
4/3/28	Install	No	10		
	<u>Type F1</u>				
	<u>50W LED FLOODLIGHT Luminaire</u>				
4/3/29	Supply	No	13		
4/3/30	Install	No	13		
	<u>LIGHT SWITCHES</u>				
	<u>Supply and installation of light switches, complete with all necessary connections, labelling, screws, cover plates, etc.</u>				
	<u>16A one lever one-way flush mounted light switch</u>				
4/3/31	Supply	No	53		
4/3/32	Install	No	53		
	<u>16A Two lever one-way flush mounted light switch</u>				
4/3/33	Supply	No	25		
4/3/34	Install	No	25		
	<u>16A Four lever one-way flush mounted light switch</u>				
4/3/35	Supply	No	1		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 3 Lighting installation				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
4/3/36	Install	No	1		
	<u>16A One lever two-way flush mounted light switch</u>				
4/3/37	Supply	No	3		
4/3/38	Install	No	3		
	<u>16A Two lever two-way flush mounted light switch</u>				
4/3/39	Supply	No	4		
4/3/40	Install	No	4		
	<u>5A, 3 Pin surface mounted unswitched socket outlet, complete with 100x50 box</u>				
4/3/41	Supply	No	12		
4/3/42	Install	No	12		
	<u>Photocell</u>				
4/3/43	Supply	No	12		
4/3/44	Install	No	12		
	<u>CONDUCTORS</u>				
	<u>Supply and installation of 600/1000V PVC insulated conductors into conduit, trunking, including conductor identification labels, terminating, etc.</u>				
	<u>2.5 mm² conductor</u>				
4/3/45	Supply	m	9 562		
4/3/46	Install	m	9 562		
	<u>Supply and installation of bare copper earth conductor into conduit, trunking, etc.</u>				
	<u>1.5 mm² conductor</u>				
4/3/47	Supply	m	4 781		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 3 Lighting installation				

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>					
<u>25mm Galvanised conduit</u>					
4/4/3	Supply	m	214		
4/4/4	Install	m	214		
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>CONDUIT BOXES</u>					
<u>100 x 100 x 50mm Outlet box</u>					
4/4/5	Supply	No	5		
4/4/6	Install	No	5		
<u>100 x 50 x 50mm Outlet box</u>					
4/4/7	Supply	No	7		
4/4/8	Install	No	7		
<u>60mm Round outlet box</u>					
4/4/9	Supply	No	14		
4/4/10	Install	No	14		
<u>60mm Diameter cover plate</u>					
4/4/11	Supply	No	14		
4/4/12	Install	No	14		
<u>100 x 100 Blank cover plates</u>					
4/4/13	Supply	No	3		
4/4/14	Install	No	3		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 4 Access Control System					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>100 x 50 Blank cover plates</u>				
4/4/15	Supply	No	4		
4/4/16	Install	No	4		
	<u>Draw wires drawn into conduit</u>				
4/4/17	Supply	m	785		
4/4/18	Install	m	785		
	<u>ACCESS CONTROL</u>				
	<u>Networked Access Card Readers</u>				
4/4/19	Supply	No	8		
4/4/20	Install	No	8		
	<u>Administration software</u>				
4/4/21	Supply	No	1		
4/4/22	Install	No	1		
	<u>Magnetic Lock</u>				
4/4/23	Supply	No	4		
4/4/24	Install	No	4		
	<u>Door Closers</u>				
4/4/25	Supply	No	4		
4/4/26	Install	No	4		
	<u>Green Break glasses</u>				
4/4/27	Supply	No	4		
4/4/28	Install	No	4		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 4 Access Control System				

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

4/27

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>					
<u>25mm Galvanised conduit</u>					
4/5/3	Supply	m	238		
4/5/4	Install	m	238		
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>CONDUIT BOXES</u>					
<u>100 x 100 x 50mm Outlet box</u>					
4/5/5	Supply	No	8		
4/5/6	Install	No	8		
<u>100 x 50 x 50mm Outlet box</u>					
4/5/7	Supply	No	13		
4/5/8	Install	No	13		
<u>60mm Round outlet box</u>					
4/5/9	Supply	No	31		
4/5/10	Install	No	31		
<u>5A, 3 Pin surface mounted unswitched socket outlet, complete with 100x50 box</u>					
4/5/11	Supply	No	28		
4/5/12	Install	No	28		
<u>60mm Diameter cover plate</u>					
4/5/13	Supply	No	11		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 5 Surveillance System					

TENDER NO: RFP 244/2022

4/29

TENDER NO: RFP 244/2022

4/30

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 6</u></p> <p><u>FIRE DETECTION SYSTEM</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 160</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Refer to Drawing: Fire Detection</p> <p><u>CONDUIT</u></p> <p><u>Supply and installation of SABS approved PVC conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u></p> <p><u>25mm Conduit</u></p>			
4/6/1	Supply	m	692	
4/6/2	Install	m	692	
	Carried Forward		R	
	Section No. 4 ELECTRICAL WORK Bill No. 6 Fire Detection System			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>					
<u>25mm Galvanised conduit</u>					
4/6/3	Supply	m	484		
4/6/4	Install	m	484		
<u>CONDUIT BOXES</u>					
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>100 x 100 x 50mm Outlet box</u>					
4/6/5	Supply	No	4		
4/6/6	Install	No	4		
<u>100 x 50 x 50mm Outlet box</u>					
4/6/7	Supply	No	22		
4/6/8	Install	No	22		
<u>60mm Round outlet box</u>					
4/6/9	Supply	No	41		
4/6/10	Install	No	41		
<u>60mm Diameter cover plate</u>					
4/6/11	Supply	No	28		
4/6/12	Install	No	28		
<u>100 x 100 Blank cover plates</u>					
4/6/13	Supply	No	4		
4/6/14	Install	No	4		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 6 Fire Detection System					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>100 x 50 Blank cover plates</u>				
4/6/15	Supply	No	22		
4/6/16	Install	No	22		
	<u>Draw wires drawn into conduit</u>				
4/6/17	Supply	m	1 106		
4/6/18	Install	m	1 106		
	<u>FIRE DETECTION SYSTEM</u>				
	<u>16 Zone Fire Alarm Panel</u>				
4/6/19	Supply	No	2		
4/6/20	Install	No	2		
	<u>Batteries for fire panel</u>				
4/6/21	Supply	No	2		
4/6/22	Install	No	2		
	<u>Optical Smoke Detectors</u>				
4/6/23	Supply	No	63		
4/6/24	Install	No	63		
	<u>Heat sensitive detectors</u>				
4/6/25	Supply	No	2		
4/6/26	Install	No	2		
	<u>Standalone Room Sounder Red</u>				
4/6/27	Supply	No	8		
4/6/28	Install	No	8		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 6 Fire Detection System				

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>					
<u>25mm Galvanised conduit</u>					
4/7/3	Supply	m	166		
4/7/4	Install	m	166		
<u>CONDUIT BOXES</u>					
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>100 x 100 x 50mm Outlet box</u>					
4/7/5	Supply	No	8		
4/7/6	Install	No	8		
<u>100 x 50 x 50mm Outlet box</u>					
4/7/7	Supply	No	4		
4/7/8	Install	No	4		
<u>60mm Round outlet box</u>					
4/7/9	Supply	No	12		
4/7/10	Install	No	12		
<u>60mm Diameter cover plate</u>					
4/7/11	Supply	No	2		
4/7/12	Install	No	2		
<u>100 x 100 Blank cover plates</u>					
4/7/13	Supply	No	8		
4/7/14	Install	No	8		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 7 Personal Evacuation System					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>100 x 50 Blank cover plates</u>				
4/7/15	Supply	No	4		
4/7/16	Install	No	4		
	<u>Draw wires drawn into conduit</u>				
4/7/17	Supply	m	546		
4/7/18	Install	m	546		
	<u>PERSONAL EVACUATION SYSTEM</u>				
	<u>1 Channel power amplifier @ 240W RMS per channel Install & Configure</u>				
4/7/19	Supply	No	1		
4/7/20	Install	No	1		
	<u>Gooseneck Microphone with Active Alarm Button</u>				
4/7/21	Supply	No	3		
4/7/22	Install	No	3		
	<u>12 VOLT 65 A/H BATTERY</u>				
4/7/23	Supply	No	1		
4/7/24	Install	No	1		
	<u>6U Wall Mount Cabinet to accommodate PA Equipment</u>				
4/7/25	Supply	No	1		
4/7/26	Install	No	1		
	<u>2 Way power Duct</u>				
4/7/27	Supply	No	1		
4/7/28	Install	No	1		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 7 Personal Evacuation System				

TENDER NO: RFP 244/2022

4/38

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 8</u></p> <p><u>ICT SERVICES</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 160</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Refer to Drawings: Public Address Systems</p> <p><u>CONDUIT</u></p> <p><u>Supply and installation of SABS approved PVC conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u></p> <p><u>25mm Conduit</u></p>			
4/8/1	Supply	m	352	
4/8/2	Install	m	352	
	Carried Forward		R	
	Section No. 4 ELECTRICAL WORK Bill No. 8 ICT Services			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>					
<u>25mm Galvanised conduit</u>					
4/8/3	Supply	m	184		
4/8/4	Install	m	184		
<u>CONDUIT BOXES</u>					
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>100 x 100 x 50mm Outlet box</u>					
4/8/5	Supply	No	8		
4/8/6	Install	No	8		
<u>100 x 50 x 50mm Outlet box</u>					
4/8/7	Supply	No	4		
4/8/8	Install	No	4		
<u>60mm Round outlet box</u>					
4/8/9	Supply	No	12		
4/8/10	Install	No	12		
<u>60mm Diameter cover plate</u>					
4/8/11	Supply	No	2		
4/8/12	Install	No	2		
<u>100 x 100 Blank cover plates</u>					
4/8/13	Supply	No	8		
4/8/14	Install	No	8		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 8 ICT Services					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>100 x 50 Blank cover plates</u>				
4/8/15	Supply	No	4		
4/8/16	Install	No	4		
	<u>Draw wires drawn into conduit</u>				
4/8/17	Supply	m	564		
4/8/18	Install	m	564		
	<u>ICT Services</u>				
	<u>9U Wall mounted Network Cabinet 600x450mm</u>				
	<u>Install & Configure</u>				
4/8/19	Supply	No	2		
4/8/20	Install	No	2		
	<u>24Port 10/100/1000 Gigabit Ethernet</u>				
4/8/21	Supply	No	2		
4/8/22	Install	No	2		
	<u>Cat6 24Port RJ45 Patch Panel UTP 1U black</u>				
4/8/23	Supply	No	2		
4/8/24	Install	No	2		
	<u>10Way rack mount power rail</u>				
4/8/25	Supply	No	1		
4/8/26	Install	No	1		
	<u>Fibre optic cable 980mu duct 2 core</u>				
4/8/27	Supply	m	282		
4/8/28	Install	m	282		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 8 ICT Services				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

		Brought Forward			R	
		<u>Fibre optic patch panel c/w pigtails,leads, midcouplers</u>				
4/8/29	Supply				SUM	
4/8/30	Install				SUM	
		<u>CAT6 UTP 4 PAIRS</u>				
4/8/31	Supply	m	312			
4/8/32	Install	m	312			
		<u>CAT6 UTP 3M PATCH CORD c/w Male Adapters</u>				
4/8/33	Supply	No	64			
4/8/34	Install	No	64			
		<u>Cat6 2Port Unshielded wall box (VoIP)</u>				
4/8/35	Supply	No	54			
4/8/36	Install	No	54			
		<u>HDMI wall socket & ceiling mounted c/w drawbox</u>				
4/8/37	Supply	No	44			
4/8/38	Install	No	44			
		<u>LTE Wi-fi Router (Robust/Industrial) c/w VPN</u>				
4/8/39	Supply	No	1			
4/8/40	Install	No	1			
		<u>Wi-fi (PoE) Network Access Points Wall mounted for Outdoor & Indoor applications</u>				
4/8/41	Supply	No	5			
4/8/42	Install	No	5			
		Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 8 ICT Services					

TENDER NO: RFP 244/2022

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Supply and installation of galvanised steel conduit complete with bends, joints, adaptors, couplings, saddles, cutting, etc.</u>					
<u>25mm Galvanised conduit</u>					
4/9/3	Supply	m	10		
4/9/4	Install	m	10		
<u>CONDUIT BOXES</u>					
<u>Supply and installation of surface or flush mounted conduit boxes including fixing to conduit with necessary locknuts, adaptors, bushes, etc.</u>					
<u>100 x 100 x 50mm Outlet box</u>					
4/9/5	Supply	No	18		
4/9/6	Install	No	18		
<u>100 x 50 x 50mm Outlet box</u>					
4/9/7	Supply	No	33		
4/9/8	Install	No	33		
<u>60mm Round outlet box</u>					
4/9/9	Supply	No	42		
4/9/10	Install	No	42		
<u>60mm Diameter cover plate</u>					
4/9/11	Supply	No	42		
4/9/12	Install	No	42		
<u>100 x 100 Blank cover plates</u>					
4/9/13	Supply	No	18		
4/9/14	Install	No	18		
Carried Forward				R	
Section No. 4 ELECTRICAL WORK Bill No. 9 Lightning Protection & Structural Earthing					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>100 x 50 Blank cover plates</u>				
4/9/15	Supply	No	33		
4/9/16	Install	No	33		
	<u>Draw wires drawn into conduit</u>				
4/9/17	Supply	m	1 042		
4/9/18	Install	m	1 042		
	<u>EARTHING & LIGHTNING</u>				
	<u>Supply, install, terminate and connect Main earthing system complete with all sundry materials as follows :</u>				
	<u>Earth/Soil resistivity tests</u>				
4/9/19	Supply	No	1		
4/9/20	Install	No	1		
	<u>10mm² earth wire</u>				
4/9/21	Supply	m	860		
4/9/22	Install	m	860		
	<u>10mm² earth wire ends lugs</u>				
4/9/23	Supply	No	48		
4/9/24	Install	No	48		
	<u>10mm² earth wire ends clamped at earth rods</u>				
4/9/25	Supply	No	48		
4/9/26	Install	No	48		
	<u>1.5m x M16 Copper plated steel earth spikes</u>				
4/9/27	Supply	No	48		
	Carried Forward			R	
	Section No. 4 ELECTRICAL WORK Bill No. 9 Lightning Protection & Structural Earthing				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
4/9/28	Install	No	48		
	<u>Aluminium stand-off bracket incl PVC backing fixed to structure</u>				
4/9/29	Supply	No	48		
4/9/30	Install	No	48		
	<u>CADWELL conductor joints</u>				
4/9/31	Supply	No	16		
4/9/32	Install	No	16		
	<u>Bonding earth wire to building structures, roofs, gutters etc</u>				
4/9/33	Supply	m	38		
4/9/34	Install	m	38		
	<u>500 x 50 x3mm Earthbar complete with accessories</u>				
4/9/35	Supply	m	1		
4/9/36	Install	m	1		
	<u>Testing,commissioning of entire installations and Issue of test certificates</u>				
4/9/37	Supply		Item		
Carried Forward to Summary of Section No.				R	
Section No. 4					
ELECTRICAL WORK					
Bill No. 9					
Lightning Protection & Structural Earthing					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 4</u></p> <p><u>BILL NO. 10</u></p> <p><u>DAY WORKS & PROVISIONAL SUM</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p><u>PROVISIONAL ALLOWANCES</u></p> <p><u>Provisional allowance for the following:</u></p> <p><u>Upgrade of Power supply</u></p>			
4/10/1	Allow an amount of R165 000.00 (One Hundred and Sixty Five Thousand) for provision of the application for Upgrade of power supply with ESKOM	Item		165 000.00
4/10/2	Attendance		%	
4/10/3	Profit		%	
	<p><u>Decant classroom blocks Power Supply</u></p>			
4/10/4	Allow an amount of R120 000.00 (One Hundred and Twenty Thousand) for provision of decant classroom blocks power supply, trenching, security lighting	Item		120 000.00
4/10/5	Attendance		%	
	Carried Forward		R	
	<p>Section No. 4</p> <p>ELECTRICAL WORK</p> <p>Bill No. 10</p> <p>Day Works & Provisional Sums</p>			

TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL
BILL OF QUANTITIES
EMIS NUMBER: 600100234
TENDER NO: RFP 244/2022

Bill No	SECTION SUMMARY	Page No	Amount
4/1	Low Voltage Distribution Installation	4/8	
4/2	Small power Installation	4/16	
4/3	Lighting installation	4/22	
4/4	Access Control System	4/26	
4/5	Surveillance System	4/30	
4/6	Fire Detection System	4/34	
4/7	Personal Evacuation System	4/38	
4/8	ICT Services	4/43	
4/9	Lightning Protection & Structural Earthing	4/47	
4/10	Day Works & Provisional Sums	4/49	
<p style="text-align: right;">Carried to Final Summary</p> <p>Section No. 4 ELECTRICAL WORK</p>			

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 5</u></p> <p><u>BILL NO. 1</u></p> <p><u>FIRE PROTECTION SERVICES</u></p> <p><u>CPAP WORK GROUP</u></p> <p>Unless otherwise stated all items in this bill will be Work Group 170</p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this Bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>The Fire Protection system is a “waterborne “ system incorporating mounted fire hose heels, with approved 30 metres long hoses complete with specified fire nozzles, free standing vertical hydrants, and various portable fire extinguishers as required in terms of SANS 10400 Part T and SANS 10400 Part W. Additional allowances are made for the supply and installation of fire signage as prescribed by SANS 10139 and SANS 10400. The bulk water storage tank allowed has been sized to provide emergency water supply for containment of fire in anticipation of the arrival of fire and emergency services from the nearest facility. The booster pump system allowed is selected to provide water to the necessary fire defense apparatus at the required pressure for adequate defense and containment.</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 5 MECHANICAL WORK Bill No. 1 Fire Protection Services</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
	<u>BULK WATER STORAGE AND PUMPSET (FIRE and DOMESTIC)</u>				
	<u>Supply, install and commission the following items - including all off-cuts, wastage, fittings, hangers, support brackets and painting as specified</u>				
5/1/1	87.6m3 Sectional Steel Water Storage Tank installed on Concrete piers	No	1		
5/1/2	Grundfos CMBE 5/62 Twin Booster Fire Pump Set : 70l/min @ 450kPa or approved similar	No	1		
5/1/3	40m3 Sectional Steel Water Storage Tank - installed on 10 metre elevated stand with service walkway around tank.	No	1		
	<u>Steel pipes - Laid in trenches with sand bedding and anti-corrosion protection</u>				
5/1/4	32mm Pipe.	m	15		
5/1/5	32mm Isolating Gate Valve	No	1		
5/1/6	32mm 90° Elbow	No	8		
5/1/7	32mm Equal Tee	No	1		
5/1/8	65mm Pipe	m	15		
5/1/9	65mm Isolating Gate Valve	No	6		
5/1/10	65mm Non-Return Valve	No	1		
5/1/11	65mm Inline Y-strainer	No	1		
5/1/12	65mm NB Flexible Connector - Booster Pumpset to Bulk Storage Tank	No	2		
5/1/13	100mm NB Flexible Connector - Booster Pumpset to Communication Pipeline	No	2		
5/1/14	100mm NB Schedule 40 Pipe -Booster Pumpset to Communication Pipeline	m	20		
	Carried Forward			R	
	Section No. 5 MECHANICAL WORK Bill No. 1 Fire Protection Services				

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

Brought Forward				R	
<u>Copper Capillary Fittings</u>					
<u>Supply and install capillary soldered joints and fittings to Class 2 Copper Pipes</u>					
<u>DO NOT use Resin or Acid Core Solders</u>					
<u>Avoid solders containing lead as, apart from being a health hazard, they have a low shear strength</u>					
<u>Straight Couplers - Type 601M C x C Capillary</u>					
5/2/4	601M 15mm x 15mm	No	22		
5/2/5	601M 15mm x 15mm	No	10		
<u>Reducing Couplers - Type 601M C x C Capillary</u>					
5/2/6	601M 22mm x 15mm	No	16		
5/2/7	601M 28mm x 15mm	No	4		
<u>90° ELBOWS - Type 601M C x C Capillary</u>					
5/2/8	601M 15mm x 15mm	No	58		
5/2/9	601M 22mm x 22mm	No	14		
5/2/10	601M 28mm x 22mm	No	8		
<u>Equal & Reducing Tee Pieces - Type 611M C x C x C Capillary</u>					
5/2/11	611M C x C x C - 15mm x 15mm x 15mm	No	8		
5/2/12	611M C x C x C - 15mm x 22mm x 15mm	No	1		
5/2/13	611M C x C x C - 22mm x 22mm x 22mm	No	1		
5/2/14	611M C x C x C - 22mm x 15mm x 22mm	No	1		
5/2/15	611M C x C x C - 28mm x 15mm x 22mm	No	1		
<u>Straight Couplers - Copper Capillary to Male Iron</u>					
5/2/16	604M C x MI - 15mm x 1/2"	No	9		
Carried Forward				R	
Section No. 5 MECHANICAL WORK Bill No. 2 Internal Wet Services					

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
5/2/17	604M C x MI - 22mm x 3/4"	No	6		
	<u>Reducing Tee Pieces- Type 611M C x C x C Capillary</u>				
5/2/18	611M C x C x C - 22mm x 15mm x 22mm	No	4		
	<u>Inline & Shutoff Valves</u>				
5/2/19	Inline Ball Valve - 15mm	No	9		
5/2/20	Inline Ball Valve - 22mm	No	6		
5/2/21	One Way Angle Valve - 1/2" x 15mm	No	8		
	<u>Accessories & Ancillaries</u>				
5/2/22	Braided Flexi Hose - 1/2" x 1/2" 600mm long	No	33		
5/2/23	Braided Flexi Hose - 3/4" x 3/4" 600mm long	No	6		
5/2/24	Combination Waste Trap	No	3		
5/2/25	Single Bowl Plumbing Kit	No	1		
5/2/26	Double Bowl Plumbing Kit	No	2		
5/2/27	304 grade stainless steel Floor Drain - Herbish HB125H or equal and approved - 50mm Ø horizontal waste outlet	No	3		
5/2/28	Herbish HB GT 2L Grease Trap - 2 l/s 50mm 600X1405X800	No	1		
5/2/29	400kPa Pressure Reducing Valve	No	1		
	<u>Heat pump Hot Water unit</u>				
5/2/30	Heat Pump - Capacity of 2.7kW of heating for supply to Storage Vessel i.e. geyser. To include all controls and instrumentation, valves, vents, interconnecting piping, insulation, supports etc	No	2		
5/2/31	200 litre Electric Geyser - C/W isolators, vacuum break and overflow	No	1		
	Carried Forward			R	
	Section No. 5 MECHANICAL WORK Bill No. 2 Internal Wet Services				

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward			R	
5/2/32	150 litre Electric Geyser - C/W isolators, vacuum break and overflow	No	1		
	<u>Electrical - Interconnecting cabling, control wiring to dedicated isolators and switches</u>				
5/2/33	Cabling	m	35		
5/2/34	Cable Tray - 100mm	m	35		
5/2/35	Cable Tray Supports for piping 100mm Wire Mesh	No	34		
5/2/36	Supports-Holder bats, sundries for piping		Item		
	<u>WASTE WATER PIPES & CONNECTIONS</u>				
	Class 16 PVC Piping and Accessories. Built into chased floor channels and terminated on external face of building. Internal finish to be screed covering with trafficable tiles over. Final connection to underground soil waste pipes by others.				
	<u>Concrete Gullies & Collection</u>				
5/2/37	Concrete Drain Gully	No	2		
	<u>Heavy Duty PVC and Fitting</u>				
5/2/38	50 diameter Rigid PVC Pipe	m	101		
5/2/39	110 diameter Rigid PVC Pipe	m	102		
5/2/40	ø50mm x ø50mm x ø50mm 135° PVC Branch	No	11		
5/2/41	110mm x 50mm x 110mm 135° PVC Branch	No	8		
5/2/42	110mm x ø110mm x ø110mm 135° PVC Branch	No	12		
5/2/43	50mm diameter 90° PVC Bend	No	27		
5/2/44	50mm diameter 45° PVC Bend	No	18		
5/2/45	110mm diameter 45° PVC Bend	No	16		
5/2/46	50mm diameter 90° PVC Inspection Elbow	No	16		
	Carried Forward			R	
	Section No. 5 MECHANICAL WORK Bill No. 2 Internal Wet Services				

TENDER NO: RFP 244/2022

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Bill No	SECTION SUMMARY	Page No	Amount
5/1	Fire Protection Services	5/4	
5/2	Internal Wet Services	5/9	
<div data-bbox="188 1951 458 2011">Section No. 5 MECHANICAL WORK</div> <div data-bbox="555 1910 880 1937">Carried to Final Summary</div>			
			R

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 6</u></p> <p><u>BILL NO. 1</u></p> <p><u>BUDGETARY ALLOWANCES</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill.</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 6 BUDGETARY ALLOWANCES, PROVISIONAL SUMS Bill No. 1 Budgetary Allowance</p>		R	

TENDER NO: RFP 244/2022

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 6</u></p> <p><u>BILL NO. 2</u></p> <p><u>PROVISIONAL SUMS</u></p> <p><u>PREAMBLES</u></p> <p>NOTE : The tenderer is referred to the relevant clauses in the Model Preambles for Trades (2008 Edition) as issued by the Association of South African Quantity Surveyors before pricing this bill.</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>Supplementary preamble items described in Bill No. 1, shall equally apply to this bill.</p> <p><u>GENERAL NOTES TO TENDERERS</u></p> <p>General notes, described in Bill No.1, shall equally apply to this Bill</p> <p>Provisional Sums are to be expended/utilized only upon:</p> <p>·i) the submission of a minimum of three market related quotations. Quotations for service providers may be solicited by any of the following entities: the main contractor, a member of the consultant team, the implementing agent or the end user.</p> <p><u>Cash discount</u></p> <p>The following provisional sums and prime cost amounts are NET and represent the NET COST of the work described. The contractor shall not be entitled to any discount, percentage or allowance whatsoever on the value of any provisional sum or prime cost amount other than the priced value for profit and attendance as provided for. The provisional sums and prime cost amounts may be deducted in whole or in part from the contract and are subject to adjustment upon completion</p>			
	<p style="text-align: right;">Carried Forward</p> <p>Section No. 6 BUDGETARY ALLOWANCES, PROVISIONAL SUMS Bill No. 2 Provisional Sums</p>		R	

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
	<u>Profit</u>			
	Where stated, the contractor may allow for profit if required			
	<u>General attendance on nominated/selected subcontractors</u>			
	The item "Attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors, the following:			
	<u>Builder's work</u>			
	Builder's work in connection with specialist services is given elsewhere in these bills of quantities			
	<u>Signage Installation</u>			
6/2/1	Allow an amount of R25 000.00 (Twenty Five Thousand) for provision of signage	Item		25 000.00
6/2/2	Attendance		%	
6/2/3	Profit		%	
	<u>Bell Sounder Installation</u>			
6/2/4	Allow an amount of R65 000.00 (Sixty Five Thousand) for provision of a bell sounder	Item		65 000.00
6/2/5	Attendance		%	
6/2/6	Profit		%	
	<u>Landscaping</u>			
6/2/7	Allow an amount of R125 000.00 (One Hundred and Twenty Five Thousand) for provision of landscaping	Item		125 000.00
6/2/8	Attendance		%	
6/2/9	Profit		%	
	Carried Forward		R	
	Section No. 6 BUDGETARY ALLOWANCES, PROVISIONAL SUMS Bill No. 2 Provisional Sums			

RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL

BILL OF QUANTITIES

EMIS NUMBER: 600100234

TENDER NO: RFP 244/2022

	Brought Forward		R	
	<u>Refurbishment of existing fence</u>			
6/2/10	Allow an amount of R81 000.00 (Eighty One Thousand) for provision of refurbishment of existing fence, gates, etc	Item		81 000.00
6/2/11	Attendance		%	
6/2/12	Profit		%	
	<u>Kids play area</u>			
6/2/13	Allow an amount of R30 000.00 (Thirty Thousand) for provision of a kids play area	Item		30 000.00
6/2/14	Attendance		%	
6/2/15	Profit		%	
	<u>Upgrades to existing combi courts, soccer field, etc</u>			
6/2/16	Allow an amount of R542 000.00 (Five Hundred and Forty Two Thousand) for provision of refurbishment of combi courts, soccer fields, etc	Item		542 000.00
6/2/17	Attendance		%	
6/2/18	Profit		%	
	<u>Community Liaison Officer</u>			
6/2/19	Allow an amount of R216 000.00 (Two Hundred and Sixteen Thousand) for provision of CLO	Item		216 000.00
6/2/20	Attendance		%	
6/2/21	Profit		%	
	<u>School Furniture and Fittings</u>			
6/2/22	Allow an amount of R1 420 000.00 (One Million Four Hundred and Twenty Thousand) for provision of school furniture and fittings	Item		1 420 000.00
6/2/23	Attendance		%	
	Carried Forward		R	
	Section No. 6 BUDGETARY ALLOWANCES, PROVISIONAL SUMS Bill No. 2 Provisional Sums			

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TENDER NO: RFP 244/2022

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RENOVATIONS AND ADDITIONS AT CHANENG PRIMARY SCHOOL
BILL OF QUANTITIES
EMIS NUMBER: 600100234
TENDER NO: RFP 244/2022

Section No	<u>FINAL SUMMARY</u>	Page No		Amount	
1	PRELIMINARIES	1/30			
2	BUILDER'S WORK	2/79			
3	CIVIL WORK	3/25			
4	ELECTRICAL WORK	4/50			
5	MECHANICAL WORK	5/10			
6	BUDGETARY ALLOWANCES, PROVISIONAL SUMS	6/7			
	Sub- Total		R		
	VAT @ 15%		R		
	Carried to Form of Tender		R		