

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 1</u></p> <p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0 - reprint 1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A (signifying "not applicable")</p>			
	Carried Forward	R	
<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>			

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<p>Brought Forward</p> <p><u>PREAMBLES FOR TRADES</u></p> <p>The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should the contractor select Option A in terms of subclause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p>			R
<p>Carried Forward</p>			R
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	Brought Forward		R
	<u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u>		
	<u>Definitions (A1)</u>		
1	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	
	<u>Objective and preparation (A2 - A14)</u>		
2	Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....	Item	
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	Brought Forward		R
3	<p>Clause 3.0 - Documents</p> <p><i>Refer to the contract drawings</i></p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT) [3.5]</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]</p> <p>Notwithstanding this or any other Clause, Clause 3.1 is amended by deletion of the clause in total and the Clause to read: "The Employer will not provide a Payment Guarantee."</p> <p>Notwithstanding this or any other Clause, Clause 3.3 is amended by adding: "The Employer requires the contractor to waive his lien without in turn receiving a Payment Guarantee from the Employer. If it is in favour of a financial institution, then the Waiver of Lien should be in favour of both the Client and the financial institution. The Contractor may also be requested to complete a Lien in the format required by the financial institution."</p> <p>F:..... V:..... T:.....</p>	Item	
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	Brought Forward		R
4	<p>Clause 4.0 - Design responsibility</p> <p>Notwithstanding the provisions of Clause 4.2, the Contractor shall ensure that every nominated or selected sub-contractor shall simultaneously with the signing of the relevant nominated or selected sub-contractor sign and deliver to the employer a Design Materials and Workmanship Warranty and Undertaking in favour of the employer or a Materials and Workmanship Undertaking strictly in accordance with the instructions or provisions contained in the tender documents for the nominated or selected sub-contract works</p> <p>F:..... V:..... T:.....</p>	Item	
5	<p>Clause 5.0 - Employer's agents</p> <p>The principal agent shall:</p> <ul style="list-style-type: none"> - monitor and control progress and scheduling - monitor all contract conditions, and - coordinate the efforts of the employer's agents, the contractor and subcontractors <p>The powers conferred on the principal agent in terms of this clause and/or the exercising of these powers shall not be construed as removing or diminishing any of the obligations of the Contractor in terms of the Principal Building Agreement, whether financial, contractual or otherwise, nor shall the exercising of these powers create any privity of contract as between the Employer or his agents on the one part and the Contractor or subcontractors or suppliers on the other part</p> <p>The principal agent reserves the right to attend and participate in all contractor/subcontractor's meetings, to invite other employer's agents to attend such meetings at his discretion and to converse and chair any such meetings if the contractor is derelict in his duty in arranging such meetings to the degree of frequency and comprehensiveness dictated in the opinion of the project manager by the circumstances and exigencies of the construction process</p> <p>F:..... V:..... T:.....</p>	Item	
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6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
7	Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works . The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [7.1] F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Special insurances F:..... V:..... T:.....	Item	
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	Brought Forward		R
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item	
13	Clause 13.0 - Assignment The Contractor shall not cede his rights or delegate his obligations in terms of this agreement, unless specifically called for by the employer. F:..... V:..... T:.....	Item	
14	Clause 14.0 - Security F:..... V:..... T:.....	Item	
<u>Execution (A15 - A23)</u>			
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item	
16	Clause 16.0 - Site and access Access to the site must be arrange with the campus manager. The site must be fully enclosed to keep unauthorized people out of the site. Contractor has to take the level of noise into consideration when construction commences during teaching activities. F:..... V:..... T:.....	Item	
17	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item	
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	Brought Forward		R
18	<p>Clause 18.0 -Setting out of the works</p> <p>The contractor shall notify the principal agent if any encroachment of adjoining foundations, buildings, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1]</p> <p>F:..... V:..... T:.....</p>	Item	
19	<p>Clause 19.0 - Temporary works and plant</p> <p>Clause 19.1.1 - Enclosure of the works</p> <p>F:..... V:..... T:.....</p>	Item	
20	<p>Clause 19.1.2 - Office accommodation - provide suitable office accomodation for site meetings with tables and chairs for ten people</p> <p>F:..... V:..... T:.....</p>	Item	
21	<p>Clause 19.1.3 - The contractor shall ensure, where required, that the works are sealed off with temporary hoarding from neighbouring areas, keeping doors closed at all times.</p> <p>The contractor is to provide and remove up on completion any temporary hoarding etc. used to protect existing premisses and equipment. The hoarding shall be maintained and kept clean for the duration of use.</p>	Item	
22	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
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	Brought Forward		R
23	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>The contractor is to provide the subcontractors and direct contractors with the necessary assistance needed to successfully install, test and commission all equipment. The contractor is to liaise with the subcontractors and direct contractors regarding special requirements.</p> <p><i>Written proof is required from subcontract tenderers at tendering that they can meet the JBCC Selected Subcontract Agreement or other tender agreements and provide security in terms of the agreement. If the above is not provided the tender may not be accepted</i></p> <p><i>All amounts allowed under Provisional Amounts are intended to be awarded to Selected Subcontractors</i></p> <p>F:..... V:..... T:.....</p>	Item	
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24	<p>Clause 22.0 - Employer's direct contractors</p> <p>The employer shall have the right to employ other direct contractors to execute any special works not contained in this contract, concurrently with the work being executed under this contract and the contractor shall not be entitled to any percentage profit or discount on the value thereof. The contractor shall allow these direct contractors to have access to the works and shall allocate reasonable space in the building for the storage of their materials, tools and equipment, all to the satisfaction of the principal agent.</p> <p>The contractor shall also allow the direct contractors to use, free of charge, scaffolding, the latrine accommodation, water and power supply on site, and shall not in any way hinder or prevent the execution of their work.</p> <p>The contractor is to allow for any costs in connection with providing access for such concurrent contracts and for the use of the facilities stated above and no additional claim will be entertained due to the presence on the works of such direct contractors.</p> <p>F:..... V:..... T:.....</p>	Item	
25	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>The Contractor is referred to the Specific Preliminaries below for the mandatory Sub-Contracting requirements of this contracts</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Completion (A24 - A30)</u>		
26	<p>Clause 24.0 - Practical completion</p> <p>Notwithstanding the provisions of this Clause, Clause 24 is amended by adding the following: The fact that the tenants has occupied the building does not necessarily mean that practical completion has occurred.</p> <p>The Practical Completion certificate will not be issued by</p>		
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<p>the Principal Agent until such time as the following items are complete:</p> <ul style="list-style-type: none"> - Improvements completed, including all external and internal finishes - Roof waterproofed and tested - Access to the improvements is fully secure - Uninterrupted access by the Tenant and its visitors and invitees to the improvements, is secured on the basis that: <ul style="list-style-type: none"> - Access must be clean, unhindered and free from mud, rubble, debris and the like, and - No contractor or sub-contractor will be exercising any lien over the improvements or the site or any part thereof - Improvements cleaned internally and externally, including ensuring that the improvements are hygienic and vermin free - All jointing and sealing work complete - All items which are damaged during construction have been replaced or made good - All services complete including testing and commissioning - All ironmongery complete including easing and adjusting - All works above ceiling level complete with no exception - All scaffolding dismantled and removed from site - Site office removed - All municipal and other authority services connections inspected commissioned and active - External works complete, including all roads and paving, landscaping, fencing, retaining walls, external services, site structures and buildings - Site cleared of all spoil heaps, builders rubble and other unwanted materials - All roads, paving, sundry structures and buildings cleared - All services, equipment, motors and the like commissioned <p>F:..... V:..... T:.....</p>				
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27	<p>Clause 25.0 - Works completion</p> <p>Notwithstanding the provisions of Clause 25.0, a penalty together with the non entitlement of compensatory interest will be applicable</p> <p>F:..... V:..... T:.....</p>	Item	
28	<p>Clause 26.0 - Final completion</p> <p>The contractor shall attend to defects during the defects liability period on a progressive basis, to the satisfaction of the principal agent and will not be permitted to wait until the end of the defects liability period or until the amount of defects accumulates in order to attend to a comprehensive list of defects</p> <p>F:..... V:..... T:.....</p>	Item	
29	<p>Clause 27.0 - Latent defects liability period</p> <p>F:..... V:..... T:.....</p>	Item	
30	<p>Clause 28.0 - Sectional completion</p> <p>F:..... V:..... T:.....</p>	Item	
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31	<p>Clause 29.0 - Revision of date for practical completion</p> <p>Sub clause 29.1.1 is hereby added onto by the following:</p> <p>"Exceptionally inclement weather, which shall only relate to weather with a degree of inclement which is materially greater than or is materially beyond the average inclemency experienced in past years and/or recorded, in terms of available records or otherwise, at or for the area in which the site is situated, for the period(s) in question. Any revision of date for practical completion which may, in terms of this clause be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally inclement weather by which the average periods of time, during which exceptionally inclement weather is experienced and/or recorded in the area in which the site is situated, is exceeded. The Contractor is therefore to make allowance for normal variances of the weather."</p> <p>Extension of time shall only be considered when work is on the critical path of the contract programme, which the contractor shall clearly identify, for the works affected.</p> <p>Any delays to minor portions of the works will only attract extensions of time to those areas and not the entire project</p> <p>The removal and replacement of materials and/or workmanship which do not conform to specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3)</p> <p>F:..... V:..... T:.....</p>	Item	
32	<p>Clause 30.0 - Penalty for late or non-completion</p> <p>F:..... V:..... T:.....</p>	Item	
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	<u>Payment (A31 - A35)</u>		
33	<p>Clause 31.0 - Interim payment</p> <p>Materials and goods stored off site shall not be included in the amount authorised for payment [31.6.5]</p> <p>F:..... V:..... T:.....</p>	Item	
34	<p>Clause 32.0 - Adjustment to the contract value</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor [32.13]</p> <p>Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement and notwithstanding the fact that such prices may be used in an interim payment certificate there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the certificate of final completion, it shall be in writing</p> <p>The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss of profit shall not be entertained</p> <p>Where prices are submitted by the contractor or nominated/selected subcontractors during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing [32.2]</p> <p>F:..... V:..... T:.....</p>	N/A	
35	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F:..... V:..... T:.....</p>	Item	
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36	Clause 34.0 - Final account and final payment F:..... V:..... T:.....	Item	
37	Clause 34.10 - Is amended by the deletion of "with in seven (7) calender days" in the first sentence and replacing with "within thirty (30) calender days".	Item	
38	Clause 34.11 - Is amended by the substitution of the words "practical completion", in the fourth line by the words, "Final completion".	Item	
39	Clause 34.13 - Is amended by the deletion of "within twenty one (21) calender days" in the second sentence and replacing with "within thirty (30) calender days".	Item	
40	Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item	
	<u>Termination (A36 - A39)</u>		
41	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item	
42	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item	
43	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item	
44	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item	
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	<u>Dispute (A40)</u>		
45	Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item	
	<u>Contract variables (A41 - A42)</u>		
46	Clause 41.0 - Post tender provisions The contractor is to complete and submit with his tender the JBCC Principal Building Agreement Contract Data CE F:..... V:..... T:.....	Item	
47	Clause 42.0 - Contractual agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item	
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	<u>SECTION B: PRELIMINARIES</u>		
	<u>Definitions and interpretation (B1)</u>		
48	Clause 1.0 - Definitions and interpretation The items in the Bill of Quantities are to be read and priced in conjunction with and the description regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, and no claim arising from brevity of description of items fully described in the said documents will be entertained F:..... V:..... T:.....	Item	
	<u>Documents (B2)</u>		
49	Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item	
50	Clause 2.2 - Provisional bills of quantities F:..... V:..... T:.....	Item	
51	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item	
	<u>Previous work and adjoining properties (B3)</u>		
52	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
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53	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
54	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item	
	<u>Samples, shop drawings and manufacturer's instructions (B4)</u>		
55	Clause 4.1 - Samples of materials F:..... V:..... T:..... The principal agent may reject any materials or colours not corresponding with the approved samples. The approved samples shall be kept on site until completion of works. Should any materials or items specified prove to be either unavailable, in poor supply or likely to cause delay to thee works the contractor shall notify the principal agent in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the contractor not conforming with the terms of this clause will not be entertained or allowed.	Item	
56	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item	
57	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item	
58	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
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	<u>Deposits and fees (B5)</u>		
59	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item	
	<u>Temporary services (B6)</u>		
60	Clause 6.1 - Water F:..... V:..... T:.....	Item	
61	Clause 6.2 - Electricity F:..... V:..... T:.....	Item	
62	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item	
63	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item	
64	Additional Clause 6.5 - Office Accommodation The contractor to provide standard office accomodation on site to house 12 persons to be used by the professional team for site meetings and site works. F:..... V:..... T:.....	Item	
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65	<p>Additional Clause 6.6 - Advertising rights and notice</p> <p>The contractor to erect a main notice board according to the Architect's specifications (3000mm wide x 3000mm High) and local municipality regulations.</p> <p>Existing signboard (Employers) is to be kept displayed on site and maintained. The successful main contractor may alter the position of the signage (to be approved by the principal agent) at his own costs.</p> <p>F:..... V:..... T:.....</p> <p><u>Prime cost amounts (B7)</u></p>	Item	
66	<p>Clause 7.1 - Responsibility for prime cost amounts</p> <p>Clause 7.1 is amended by the omission of "hoisting and fixing" in the second sentence and replacing with "hoisting, wastage and fixing."</p> <p>Clause 7.1 is further amended by deletion of "The contract documents shall make provision for the contractor to separately price" in the second sentence and replacing with "The contractor shall include in the rate for the item".</p> <p>The client reserves the right to omit the PC amount and the associated waste factor in totality and supply the contractor with these items on site in which case only the extra over amount shall be used for installation including all associated cost and profit.</p> <p>F:..... V:..... T:.....</p> <p><u>Special attendance on n/s subcontractors (B8)</u></p>	Item	
67	<p>Clause 8.1 - Special attendance</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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	Brought Forward		R
	<u>General (B9)</u>		
68	Clause 9.1 - Protection of the works F:..... V:..... T:.....	Item	
69	Clause 9.2 - Protection/isolation of existing/ occupied works F:..... V:..... T:.....	Item	
70	Clause 9.3 - Security of the works F:..... V:..... T:.....	Item	
71	Clause 9.4 - Notice before covering work F:..... V:..... T:.....	Item	
72	Clause 9.5 - Disturbance F:..... V:..... T:.....	Item	
73	Clause 9.6 - Environmental disturbance F:..... V:..... T:.....	Item	
74	Clause 9.7 - Works cleaning and clearing Great emphasis will be placed upon orderliness and cleanliness of the site during construction and finishing of the project and the contractor shall ensure that this condition is met by himself and all of his subcontractors at all times. F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R
75	Clause 9.8 - Vermin F:..... V:..... T:.....	Item	
76	Caluse 9.9 - Overhand work F:..... V:..... T:.....	Item	
	<u>Schedule of variables (B10)</u>		
	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 no specific requirements are expected or that the clause is not relevant to this specific contract		
	10.1 - Provisional bills of quantities [2.2] The quantities are provisional Yes		
	10.2 - Availability of construction documentation [2.3] Construction documentation is complete No		
	10.3 - Previous work - dimensional accuracy [3.1]		
	10.4 - Previous work - defects [3.2]		
	10.5 - Inspection of adjoining properties [3.3]		
	The contractor must inspect the existing buildings adjoining and report in writing, so no claims can be made by the client to the contractor of damages to existing structures.		
	10.6 - Water [7.2]		
	Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered) No		
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward	R
<u>ADDITIONAL VARIABLES</u>		
CONTRACTING AND OTHER PARTIES		
1. Employer	Ehlanzeni TVET College	
Physical address	29 Bell Street, Nelspruit	
Code	1200	
Telephone	013 712 6640	
Fax		
E-mail	ntando.ndukuya@ehlanzenicollege.co.za	
	Carried Forward	R
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R
CONTRACT DETAILS			
8. Works description			
In general the works comprise of the following:			
Refurbishment of student hostels, water and fire reticulation			
9. Site description			
Site is located at:			
Mpumalanga TVET Mapulaneng Campus Acornhoek			
GPS Coordinates			
Latitude South : deg.S 24.61° 11.31' 52"			
Longitude East : deg.E 31.05° 07' 44.10"			
10. Work or installations by direct contractors:			
Yes where applicable			
11. This agreement is for a TVET College contract			
No. ETVETC/MAPUL/HS/2024/01			
12. Possession of the site is intended to be given on To be confirmed in 2026			
13. Period for the commencement of the Works after the Contractor takes possession of the site			
Working days (7) Seven			
14. Completion in sections of the works is required			
No			
	Carried Forward		R
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries			

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			R
77	<p style="text-align: center;">Brought Forward</p> <p>15. Intended date of practical completion and the penalty per calendar day for : excluding builders and public holidays. Penalty: R 11,927.00 per calendar day An additional penalty for not achieving works completion as per clause 25.4 Penalty: R 5,963.50 per calendar day</p> <p>16. Arbitration rules <i>(if applicable)</i> Arbitration rules as recommended by the relevant Association of Arbitrators.</p> <p>17. The law applicable to this agreement shall be that of <p style="text-align: center;">South Africa</p> <p>18. Penalty for beneficial completion <p style="text-align: center;">N/A</p> <p>INSURANCES</p> <p>19. Contracts works insurance to be effected by: <p style="text-align: center;">Contractor</p> For the sum of: Contract Sum plus 20% With a deductible of: Maximum of R20 000-00 for any one occurrence</p> <p>20. Supplementary insurance is required <p style="text-align: center;">SASRIA</p> <p style="text-align: right;">Yes</p> </p></p></p>	Item	
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R	
21. Public Liability Insurance to be effected by :				
	Contractor			
For the sum of	R 2 000 000-00			
with the deductible of	Max of R 20 000-00			
DOCUMENTS				
22. Waiver of the Contractor's lien or right of continuing possession is required.				
	Yes, no Payment Guarantee will be implemented by the Employer			
23. Construction document and drawings copies to be supplied to the Contractor free of charge.				
	Number of 3			
24. Bills of Quantities/Schedule of Rates drawn up in accordance with:				
	Standard System of Measuring Building Work 2015/ Revised Seventh edition			
25. JBCC Engineering General Conditions are to be included in the contract documents.				
	No			
26. The contract will be a fixed price contract. The Contractor to allow for his own escalation and include it in his priced rates				
	Yes			
27. Details of changes made to the provisions of JBCC standard documentation.				
	Carried Forward		R	
Section No. 1 Preliminaries and General Bill No. 1 Preliminaries				

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	Brought Forward		R
	<p><u>SECTION C: SPECIFIC PRELIMINARIES</u></p> <p>Any special items to meet the particular circumstances of a specific project are embodied in this section. Where required for an aspect of the works to be executed according to a design by a consulting engineer, a recital of the headings to the individual clauses of the JBCC Engineering General Conditions are included</p>		
78	<p>Black economic empowerment and training</p> <p>F:..... V:..... T:.....</p>	Item	
79	<p>Proprietary branded products</p> <p>F:..... V:..... T:.....</p> <p>The contractor shall take delivery of, handle, store, use, apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instructions after consultation with the manufacturer's authorised representative</p>	Item	
80	<p>Contract instructions</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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	Brought Forward		R
	<p>Contract instructions issued on site are to be recorded in triplicate in a contract instruction book which is to be supplied and maintained on site by the contractor</p> <p>Contract instructions to the contractor and his subcontractor may be issued only by the Principal Agent, Project Manager or his authorized representative and must be issued via the contractor. Copies of all contract instructions issued shall be submitted to the Principal Agent and the Quantity Surveyor within 48 hours of issue all Contract Instructions demarcated having cost implications or an extension of time effect, must be signed by the Principal Agent or his authorized representative prior to the work being executed.</p>		
81	<p>Labour record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and descriptions of tradesmen and labourers employed by him and all subcontractors on the works each day of that week</p>	Item	
82	<p>Plant record</p> <p>F:..... V:..... T:.....</p> <p>At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools used on the works each day of that week</p>	Item	
83	<p>Guarantees</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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	Brought Forward		R
	<p>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 defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his decision shall be final and binding in terms of clause 40.2 of the agreement</p>		
84	<p>Overtime</p> <p>F:..... V:..... T:.....</p> <p>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 execution thereof, that costs for such overtime are to be borne by the employer</p>	Item	
85	<p>Co-operation of contractor for cost management</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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	Brought Forward		R
	<p>It is specifically agreed that the contractor accepts the obligation of assisting the professional consultants in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The quantity surveyor undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedures to be implemented and the contractor will attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures in regard to all subcontractors</p>		
86	<p>Occupational Health and Safety Specification</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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	Brought Forward		R
	<p>The contractor shall comply with all the requirements set out in the Construction Regulations 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993).</p> <p>It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document.</p> <p>The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of parial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including extension of time or interest, due to such delay of payment.</p> <p>Provisions for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained.</p> <p>Contractor to comply with all required Occupational Health and Safety Specifications including Asbestos Act.</p>		
87	<p>Allow for the compulsory equipment and clothing, ie hats, safety shoes, safety clothing, safety glasses, safety masks, harnesses, etc</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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	Brought Forward		R
88	Allow for all compulsory health and safety posters, boards, etc F:..... V:..... T:.....	Item	
89	Allow for all compulsory health and safety workshops, meetings, lectures, demonstrations, etc F:..... V:..... T:.....	Item	
90	Allow for all compulsory health and safety pamphlets, cards, paperwork, etc to each worker, consultant, public individual, etc coming onto the site F:..... V:..... T:.....	Item	
91	Allow for compulsory health and safety files that must be completed daily and must be handed to the employer on completion of the contract F:..... V:..... T:.....	Item	
92	Scope of Application as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R
93	Notification of Construction Work as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
94	Employer's responsibilities as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
95	Principal Contractor's responsibility as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
96	Supervision of construction work as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
97	Risk assessment as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
98	Fall protection as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R
99	Structures Formwork and Support as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
100	Excavation as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
101	Demolition work as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
102	Tunnelling as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
103	Scaffolding as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R
104	Suspended platforms as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
105	Botswains chairs as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
106	Materials hoists as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
107	Batch plant as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
108	Explosive powered tools as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
109	Cranes as per Act No 85 of 1993 F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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	Brought Forward		R	
110	Construction vehicles and mobile plant as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
111	Electrical installations and machinery on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
112	Use and temporary storage of flammable liquids on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
113	Water environments as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
114	Housekeeping on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries			

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	Brought Forward		R	
115	Stacking and storage on construction sites as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
116	Fire precautions as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
117	Construction welfare as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
118	Approved inspection Authorities as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
119	Offences and penalties as per Act No 85 of 1993 F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries			

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	Brought Forward		R	
120	<p>Repeal of regulations as per Act No 85 of 1993</p> <p>F:..... V:..... T:.....</p>	Item		
121	<p>Short title as per Act No 85 of 1993</p> <p>F:..... V:..... T:.....</p>	Item		
122	<p>Obligatory Sub-contracting and Training</p> <p>F:..... V:..... T:.....</p> <p>The Principal Agent and the Contractor shall at all times make sure that the work complies with the relevant specifications, standards and norms as contained in this tender.</p> <p>The Principal Agent and the Contractor shall provide for the necessary skills transfer and assistance to complete the sub-contracted section of the works.</p> <p>The Principal Agent and the Contractor shall provide the necessary documentation to the Domestic Sub-Contractor for upgrading of the rating by CIDB.</p>	Item		
123	<p>Expanded Public Works Programme</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>			

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	Brought Forward		R	
	The Contractor shall study the guidelines for the implementation of labour-intensive infrastructure projects under the Expanded Public Works Programme (EPWP) attached to this document. The Contractor shall take note of the requirements and inform all selected and or other sub-contractors, as no claim afterwards will be entertained			
124	C11.1 Local and targeted labour F:..... V:..... T:.....	Item		
125	Allow for regular submission of proof of employment of local skilled and unskilled labour to Employer's representative F:..... V:..... T:.....	Item		
126	Training allowance paid to targeted labour in respect of formal training. F:..... V:..... T:.....	Item		
127	Extra over for the administration of payment of training allowances to targeted labour F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries			

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	Brought Forward		R
128	<p>Transport and accommodation of workers for training where it is not possible to undertake the training in close proximity to the site</p> <p>F:..... V:..... T:.....</p>	Item	
129	<p>C12: Contract drawings</p> <p>F:..... V:..... T:.....</p> <p>The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed</p> <p>Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent</p>	Item	
130	<p>C13: General preambles</p> <p>F:..... V:..... T:.....</p>	Item	
131	<p>C14: Trade names</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>		

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	Brought Forward		R	
	<p>Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders</p> <p>If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for</p>			
132	<p>C15: Community Liaison Officer</p> <p>F:..... V:..... T:.....</p>	Item		
133	<p>Provide the amount of R7,500.00/month (Seven Thousand Rand per month) for the appointment of a Community Liaison Officer</p> <p>F:..... V:..... T:.....</p>	Mnths	12	
134	<p>C16: SANS 1921-6: HIV/AIDS Awareness read in conjunction with the Associated Specification Data</p> <p>F:..... V:..... T:.....</p>	Item		
135	<p>General requirements (Clause 4.1)</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 Preliminaries and General Bill No. 1 Preliminaries</p>			

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	Brought Forward		R
136	HIV/AIDS awareness programme (Clause 4.2)		
	F:..... V:..... T:.....	Item	
	<u>SUMMARY OF CATEGORIES</u>		
137	Reporting (Clause 4.3)		
	F:..... V:..... T:.....	Item	
	Category : Fixed R.....		
	Category : Value R.....		
	Category : Time R.....		
	Carried to Final Summary		R
	Section No. 1 Preliminaries and General Bill No. 1 Preliminaries		

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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS TO NORTH HOSTEL BLOCK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Contractors are advised to study the Model Preambles for Trades and PW371</p> <p>-----</p> <p>All Tenderers will be deemed to have visited the site prior to submitting their tender to determine the nature and extent of the alteration and demolition work and the value of the materials to be recovered. No claim for a variation in the credit allowance for recoverable materials in respect of demolition items will be considered.</p> <p>All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>In taking down and removing existing work the utmost care must be taken to avoid any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during the alteration/demolition work. The Contractor will be held solely responsible for the safety and stability of the buildings for the whole period of the contract and must make good any damage at his own expense.</p> <p>Existing services must be maintained at all times to the existing buildings. If it is found necessary to disconnect any service then suitable temporary or alternate services must be provided to the existing buildings.</p> <p>Special care shall be exercised during the progress of the work to ensure that any electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice must be given to the Principal agent if any disconnection or alterations become necessary.</p> <p>The Contractor shall cover up and protect from injury all</p> <p style="text-align: right;">Carried Forward</p> <p>Section No. 2 North Hostel Block Bill No. 1 Alterations</p>			R

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REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward		R
<p>work not removed and shall make good at his own expense any damage that may occur.</p> <p>Any water supply or other piping, etc that may be encountered and found necessary to disconnect or cut are to be effectually stopped off and any new connections that may be necessary shall be made with the proper fittings to the satisfaction of the Principal Agent. Where sanitary fittings, geysers, etc are to be removed the Contractor shall allow for removing all exposed waste or water supply pipes to the nearest suitable junction or connection and stopping off, as well as for making good plaster, screeds, etc.</p> <p>Prices for the removal of concrete slabs, etc must include for removal of reinforcement, screeds, membrane waterproofing, conduits, etc.</p> <p>Prices for the removal of concrete surface beds, etc must include for removal of reinforcement, screeds, conduits, damp proof membrane, etc. The Contractor is to note that removal of the existing floor finishes such as vinyl, carpets, ceramic tiles, etc has been measured separately.</p> <p>Taking down existing walls is to include for skirtings, cornices, conduits, pipes, brick or concrete fins, lintels, etc built into the structure and for making good walls, floors, ceilings, etc as described. The Contractor is to note that items for the removal of joinery, etc such as shelves, pelmets, curtain rails, pinning boards, signage, etc has been measured separately.</p> <p>Removal of doors, windows, fittings, etc is to include for their removal complete with frames, ironmongery, glass, quadrants, architraves, skirtings, burglar bars and all accessories to walls, reveals, around openings, for cutting out cills, etc, for hacking up flooring at openings and for making good.</p> <p>Removal of sanitary fittings is to include for the removal and blocking off of service pipes, taps, traps, fixing brackets, cisterns, etc complete.</p> <p>Building up of existing openings where given in number shall be deemed to include preparing existing surfaces all round, brickwork properly toothed and bonded to existing and shot pinned to concrete, wedging up and unless otherwise stated making good finishes on both</p>		
Carried Forward		R
<p>Section No. 2 North Hostel Block Bill No. 1 Alterations</p>		

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<p>sides to match existing.</p> <p>Allow for watering the works sufficiently to prevent nuisance from dust.</p> <p>OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, rubble, debris etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.</p> <p>OLD MATERIALS NOT TO BE RE-USED: None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p> <p>OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR: Old materials from alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.</p> <p>HANDING OVER OF MATERIALS: Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p> <p style="text-align: center;">-----</p> <p><u>REMOVAL OF EXISTING WORK</u></p> <p><u>Scarifying of existing surface bed</u></p>			
1	Internal concrete surface	m2	6	
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 1 Alterations			

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 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Breaking down and removing concrete works etc</u>			
2	External concrete surface	m2	113
3	Aprons	m2	122
<u>Breaking down and removing brickwork etc</u>			
4	Mass brickwork	m2	20
<u>Taking down and removing roofs, etc</u>			
5	Carefully take out and remove existing IBR roofing sheeting, existing trusses to receive new roof covering (measured elsewhere)	m2	849
6	Carefully take out and remove existing ceiling and brandering to receive new ceiling (measured elsewhere)	m2	547
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc including making good face brickwork on both sides</u>			
7	Timber single door 813 x 2032mm high	No	42
8	1613 x 2032mm Fixed panel doors	No	2
<u>Hacking up/off and removing existing tiling and preparing surfaces for new tiling (measured elsewhere)</u>			
9	On floors	m2	693
10	On walls	m2	20
<u>Taking out and removing carpentry and joinery work, and prepare surface to receive new (Measured elsewhere)</u>			
11	Built-In-Cupboards (2100 x 1000 x 900mm)	No	24
12	Pin-up Board	No	1
Carried Forward			R
Section No. 2 North Hostel Block Bill No. 1 Alterations			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Taking out and removing damaged sundry joinery work, and prepare surface to receive new timber skirting (Measured elsewhere)</u>			
13	Timber skirting from brickwork (Provisional)	m	20
<u>Taking out and removing glass and mirrors</u>			
14	Carefully remove cracked or broken glazing in panes exceeding 0,1m ² and not exceeding 0,5m ² in existing metal windows and doors including scraping out putty on reveals and prepare windows and or doors to receive new glazing (New glazing elsewhere measured)	No	20
<u>Taking out and removing existing ironmongery, replace with new (Measured elsewhere) and make electrical connections safe</u>			
15	Franke Wash Trough Double	No	1
16	Soap dispenser	No	8
17	Paper towel dispenser	No	2
18	Wall mounted bin	No	4
19	Toilet paper roll holder	No	12
<u>Taking out and removing taps, and prepare surface to receive new (Measured elsewhere)</u>			
20	Body bip taps 15mm	No	2
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
Carried Forward			R
Section No. 2 North Hostel Block Bill No. 1 Alterations			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Scrabble existing surface of fair faced wall and prepare internal surface to receive new brick dresser (new brick sealant elsewhere measured)</u>			
21	On internal walls	m2	525
22	On external walls	m2	207
23	On soffits	m2	547
<u>Scraping and removing existing paint to walls and prepare surface to receive new paint (new paint measured elsewhere)</u>			
24	On internal walls	m2	1,478
25	On external walls	m2	320
<u>Scraping and removing existing paint to door & window frames and preparing surface to receive new paint finish (new paint finish measured elsewhere)</u>			
26	Door frames	m2	149
27	Metal doors	m2	27
28	Window frames with burglar bars	m2	103
29	Staircase handrails	m	11
<u>SERVICING EXISTING ITEMS</u>			
<u>Servicing existing windows</u>			
30	Carefully examine hinges, handles and stays to steel windows, replace putty to glazing of steel windows and fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent	No	153
<u>Servicing existing gates</u>			
31	Carefully examine burglar bars, hinges, handles and stays to steel gates, fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent	No	7
Carried Forward			R
Section No. 2 North Hostel Block Bill No. 1 Alterations			

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EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward		R
<u>Sanitary fittings etc</u>		
32	Carefully examine hand wash basins, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 13
33	Carefully examine water closets, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 12
34	Carefully examine urinal, flushing mechanism, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 2
35	Carefully examine bath tub, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 1
36	Carefully examine shower, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 12
<u>CLEANING EXISTING SURFACES</u>		
<u>Cleaning existing surfaces with SABS approved products</u>		
37	Wall tiles	m2 82
38	Floor surfaces	m2 352
Carried Forward		R
Section No. 2 North Hostel Block Bill No. 1 Alterations		

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 2</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	72	
2	Stripping average 150mm thick layer of top soil and stockpiled	m2	72	
	<u>REMOVAL OF TREES ETC</u>			
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 2 Earthworks			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Cutting down and removing, grubbing up roots and filling in holes</u>			
3	Tree exceeding 200mm and not exceeding 500mm girth	No	1
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
4	Trenches	m3	38
5	Holes	m3	Rate only
<u>Extra over trench and hole excavations in earth for excavation in</u>			
6	Soft rock	m3	Rate Only
7	Hard rock	m3	Rate Only
<u>Extra over all excavations for carting away</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	22
<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	125
<u>Keeping excavations free of water</u>			
10	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
11	Backfilling to trenches, holes, etc	m3	16
<u>Earth filling obtained from commercial source</u>			
12	Selected fill from Commercial Sources (G7) compacted in 150mm layers to 93% Mod AASHTO Density at -2% to +1% of OMC	m3	14
Carried Forward			R
Section No. 2 North Hostel Block Bill No. 2 Earthworks			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
13	Selected fill from Commercial Sources (G5) compacted in 150mm layers to 93% Mod AASHTO Density at -2% to +1% of OMC	m3	8
<u>Coarse river sand filling supplied by the contractor</u>			
14	Backfill top 35mm river sand blinding beneath surface bed	m3	3
<u>SOIL POISONING</u>			
<u>Soil insecticide</u>			
15	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	68
16	To bottoms and sides of trenches	m2	182
Carried Forward to Summary of Section No. 2			R
Section No. 2			
North Hostel Block			
Bill No. 2			
Earthworks			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p>Tenderers are advised to study the Model Preambles for Trades before pricing this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Brickwork</u></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.</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: center;">-----</p>			
	Carried Forward		R	
	Section No. 2 North Hostel Block Bill No. 3 Masonry			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>SUBSTRUCTURE</u>			
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	41
<u>Facebrick Work in "Corobrik Namib Red Travertine FBS " face bricks (Prime Cost R8350.00 per 1000 Bricks delivered to site and excluding VAT) pointed with recessed horizontal and flush vertical joints Walls faces on both sides</u>			
2	Extra over brickwork for face brickwork in foundations	m2	16
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
3	150mm Wide reinforcement built in horizontally	m	475
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
4	One brick walls	m2	246
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
5	150mm Wide reinforcement built in horizontally	m	793
<u>Prestressed fabricated lintels</u>			
6	110 x 75mm Lintels in lengths not exceeding 3m	m	2
<u>Turning pieces</u>			
7	220mm Wide turning piece to lintels etc	m	1
<u>FACE BRICKWORK</u>			
Carried Forward			R
Section No. 2 North Hostel Block Bill No. 3 Masonry			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<u>Facebrick Work in "Corobrik Namib Red Travertine</u> <u>FBS " face bricks (Prime Cost R8350.00 per 1000</u> <u>Bricks delivered to site and excluding VAT) pointed</u> <u>with recessed horizontal and flush vertical joints</u> <u>Walls faces on both sides</u>			
8	Double skin brick walls faced both sides built in stretcher bond	m2	24	
9	Extra over brickwork for brick-on-edge header course lintel pointed on face and 230mm soffit	m	10	
	<u>Facebrick Work in "Corobrik Namib Red Travertine</u> <u>FBS " face bricks (Prime Cost R8350.00 per 1000</u> <u>Bricks delivered to site and excluding VAT) pointed</u> <u>with recessed horizontal and flush vertical joints</u> <u>Walls faces on both sides</u>			
10	Extra over brickwork for face brickwork	m2	91	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	North Hostel Block			
	Bill No. 3			
	Masonry			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

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>Tenderers are advised to study the Model Preambles for Trades before pricing this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></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 SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p><u>Formwork</u></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.</p> <p>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>			
	Carried Forward	R	
Section No. 2 North Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement			

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REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described			
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design 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"			

	<u>REINFORCED CONCRETE ON EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	11	
2	Strip footings	m3	13	
3	Ramps (Provisional)	m3	14	
4	Aprons	m3	12	
	<u>REINFORCED CONCRETE</u>			
	<u>25Mpa/19mm concrete</u>			
5	Slabs including beams and inverted beams	m3	1	
6	Walls in foundations (Provisional)	m3	1	
7	Concrete walls	m3	1	
8	Columns	m3	0.2	
9	Sloping slabs	m3	11	
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a steel float</u>			
11	Surface beds, slabs, etc	m2	200
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>			
<u>Rough formwork to sides</u>			
12	Walls in foundations (Provisional)	m2	6
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>			
<u>Smooth formwork to sides</u>			
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	7
14	Rectangular columns with total height not exceeding 3.5m above bearing level	m2	4
<u>Smooth formwork to soffits</u>			
15	Slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m2	5
<u>Smooth formwork to sloping soffits</u>			
16	Slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m2	20
<u>Smooth formwork to sides of concrete walls</u>			
17	Concrete walls propped up exceeding 1,0m and not exceeding 3,5m high	m2	6
<u>MOVEMENT JOINTS ETC</u>			
Carried Forward			R
Section No. 2 North Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Saw cut joints</u>			
18	3 x 40mm Saw cut joints in top of concrete	m	136
<u>Expansion joints with 10mm Softboard between vertical concrete and brick surfaces</u>			
19	Surface bed not exceeding 300mm thick	m	17
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High tensile steel reinforcement to structural concrete work</u>			
20	All Diameter bars	t	0.48
<u>Fabric reinforcement</u>			
21	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	119
22	Type 617 fabric reinforcement in concrete foundations	m2	57
Carried Forward to Summary of Section No. 2			R
Section No. 2			
North Hostel Block			
Bill No. 4			
Concrete, Formwork and Reinforcement			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	21	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	172	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, SHOWERS, ETC</u>			
	<u>"Sika Cemflex" or similar approved waterproofing as per manufacturer's specifications</u>			
3	On shower floors and walls to receive tiles	m2	15	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	North Hostel Block			
	Bill No. 5			
	Waterproofing			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS ETC</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "IBR" Z200 spelter galvanised sheet steel with "Chromadek®" colour coated finish to one side and standard backing coat in single lengths fixed to mild steel channel/ timber purlins/ girts</u>			
1	Roof covering with pitch not exceeding 25 degrees, fixed on existing roof trusses	m2	658	
2	Side cladding	m2	199	
3	Ridge capping 450mm girth	m	47	
4	Cover wall flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	186	
5	Head wall flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	93	
6	Drip flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	23.6	
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 6 Roof covering, etc			

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	Brought Forward			R
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Alucushion" insulation</u>			
7	4mm Alulite® FR (Fire Retardant) - white polyethylene coated single sided aluminium foil insulation Code FTC 16/082 as supplied by Alulite®. Laid taut over purlins and fixed concurrent with roof covering; overlapped longitudinally by 100mm; on and including white PVC coated straining wire spaced at 383mm centres; all in strict accordance with the manufacturers specifications	m2	652	
	<u>SUNDRIES</u>			
	<u>0.6 IBR closures</u>			
8	IBR profiled roof closures	m	280	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	North Hostel Block			
	Bill No. 6			
	Roof covering, etc			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</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 include pelleting of bolt holes</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><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>			
	Carried Forward	R	
Section No. 2 North Hostel Block Bill No. 7 Carpentry and Joinery			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

				R
	Brought Forward			
	<u>SKIRTINGS</u>			
	<u>Meranti</u>			
1	19 x 76mm Skirting including 19mm quadrant bead nailed	m	20	
	<u>Doors</u>			
	<u>Wrought meranti</u>			
2	Meranti F/Back doors (PC R2200.00/No)	No	43	
3	44mm Standard 2032 x 813 flush panel, hollow core door with masonite veneer, edged with hardwood edging strips all around	No	2	
	<u>"Bitcon Industries" fire doors with 3mm thick Masonite to both sides</u>			
4	Class B fire double door 1 800 x 2 032mm high including pressed steel frame for one brick wall and preparing frame for door closer (Installation only)	No	2	
	<u>JOINERY WORKS - BUILT IN CUPBOARDS</u>			
5	Allow the Provisional Amount of R762,000.00 (Seven Hundred and Sixty Two Thousand Rand) for Joinery Works - Built in Cupboards to be done by a Selected Sub-contractor		Item	
6	Add for profit			%
7	Add for general attendance			%
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 7 Carpentry and Joinery			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 8</u>			
	<u>CEILING, PARTITIONS AND ACCESS FLOORING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres and where described as "bolted" the bolts have been given elsewhere.			
	<u>NAILED UP CEILINGS</u>			
	<u>6mm "Everite Nutec" fibre-cement plasterboard with H-type pressed steel jointing strips</u>			
1	Ceilings including steel hangers and cross tees at 600mm centres fixed to steel roof trusses	m2	1,094	
2	Extra over ceiling for 700 x 700mm trap door of steel hangers and cross tees rebated framing covered with ceiling board and fitted flush opening (Provisional)	No	16	
	<u>"Rhino" gypsum plasterboard cornices</u>			
3	75mm Coved cornices	m	866	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 North Hostel Block Bill No. 8 Ceilings, Partitioning and Access flooring			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 2</u></p> <p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill. -----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of bolts, expansion anchors and bolts and chemical anchors and bolts shall be deemed to include all holes, nuts, washers and mortices in brickwork or concrete -----</p> <p><u>Standard of finish</u></p> <p>All stainless steel material to be used to be of stainless steel Grade 304, brushed to 180 grit</p> <p>All mild and structural steel shall be painted as follows unless otherwise stated:</p> <p>Apply one coat UC 182 "Plascon Plascoprime" Primer in accordance with manufacturers specification.</p> <p>Apply two coats "Plascon Velvagio" Water Based Enamel colour mouse grey in accordance with manufacturers specification.</p> <p><u>Fastening</u></p> <p>Unless otherwise stated, all connections to:</p> <ul style="list-style-type: none"> • Concrete shall be chemically anchored • Brickwork shall be expansion bolts • Metal to metal connections shall be welded 			
	Carried Forward		R	
	Section No. 2 North Hostel Block Bill No. 9 Metalwork			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
<u>Compliance</u>				
All balustrading to comply with SANS 10400 & SANS 10160. Installer to table a Balustrade Compliance Certificate on completion of balustrade installation				
All angle deviations horizontal or vertical to be by means of seamless mitred joints except for landing termination bends. Workmanship sample to be tabled for approval				
Shop drawings are to be tabled for approval before manufacturing				
<u>STEEL BALUSTRADES</u>				
<u>Hot dip galvanised Mild Steel ball type handrails and accessories as manufactured and supplied by Andrew Mentis (Pty) Ltd or Vital Engineering & Angus Mcleod (Pty) Ltd or other equal and approved, erected in strict accordance with the Manufacturer's Instructions and Specifications</u>				
The items listed below are to be inclusive of the costs for supply and installation				
1	Handrailing consisting of stanchions, rails at 1,000mm and 500mm, fixing bolts, bends, closures, etc, all inclusive, to perimeter of floors	m	9	
2	Ditto, but to ramps	m	34	
Carried Forward to Summary of Section No. 2				R
Section No. 2 North Hostel Block Bill No. 9 Metalwork				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 10</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Finishes to ironmongery</u>			
	<u>All items necessary to be replaced should match existing or similar approved</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS - Satin bronze lacquered			
	CH - Chromium plated			
	SC - Satin chromium plated			
	SE - Silver enamelled			
	GE - Grey enamelled			
	AS - Anodised silver			
	AB - Anodised bronze			
	AG - Anodised gold			
	ABL - Anodised black			
	PB - Polished brass			
	PL - Polished and lacquered			
	PT - Epoxy coated			
	SD - Sanded			

	<u>BATHROOM FITTINGS</u>			
	<u>Shower panel doors</u>			
1	1074 X 1800mm White shower pivot	No	12	
	<u>"Franke" or similar approved</u>			
2	Wall mounted foldable shower seat	No	2	
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 10 Ironmongery			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
		<u>"Hailcast" or similar approved</u>		
3	Approved plastic shower curtain to fit opening 2 500mm wide, including hangers, fixed to rail (e/m)	No	2	
		<u>"Twinsaver" or similar approved</u>		
4	"0530" - Foam soap dispenser	No	8	
5	"0571" - TR2 Toilet paper holder	No	12	
6	chrome shower soap holder	No	14	
7	Slimroll Hand Towel Dispenser	No	4	
8	Stainless steel wall mounted bin (18L)	No	6	
		<u>Purpose made wall mounted grab rails</u>		
9	Splashaid dog leg grab rail 604 x 304 x 106mm	No	2	
10	750mm Plumline ss cistern grab rail	No	2	
11	600mm Splashaid straight grab rail	No	14	
		<u>HINGES, BOLTS, ETC</u>		
		<u>"Union" or similar approved</u>		
12	102 x 75 x 3mm Door hinge	No	45	
		<u>WRITING BOARDS, PINNING BOARD, ETC</u>		
		<u>"Parrot products"</u>		
13	"BDO476" 3000 X 1200mm Aluminium framed carpet bulletin board	No	1	
		Carried Forward		
		R		
Section No. 2 North Hostel Block Bill No. 10 Ironmongery				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward				R
	<u>LOCKS</u>				
	<u>"QS Products" or similar approved</u>				
14	"QS575/1" Three ever cylinder latch lock and deadbolt	No	46		
	<u>HANDLES</u>				
	<u>"Dormakaba" or similar approved</u>				
15	Satin Chrome CB30 handle on 40 x 190mm round keyhole plate	No	45		
	<u>LETTERS, NAMEPLATES, ETC</u>				
16	60 x 3mm Thick perspex plate with two 40mm high engraved and painted numerals	No	44		
	<u>SUNDRIES</u>				
	<u>"Union" or similar approved</u>				
17	"AL8730AS" door stop plugged	No	45		
18	"QS4434" rubber tipped hat and coat hook	No	12		
	Carried Forward to Summary of Section No. 2				R
	Section No. 2				
	North Hostel Block				
	Bill No. 10				
	Ironmongery				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill.			
	<u>EXTERNAL PLASTER</u>			
	<u>One coat plaster (1:5) wood floated on concrete</u>			
1	On walls	m2	12	
2	On colounms and beams	m2	1	
	<u>INTERNAL PLASTER</u>			
	<u>1:4 Cement plaster on brickwork finished with a plastic trowel</u>			
3	On walls	m2	33	
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
4	30mm Thick on floors and landings	m2	6	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic floor finish on concrete</u>			
5	40mm Thick Sloping on floors and landings	m2	6	
	Carried Forward to Summary of Section No. 2			
	Section No. 2			
	North Hostel Block			
	Bill No. 11			
	Plastering			
			R	

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	NOTE: PC Amount refer to the cost of material delivered to site excluding any discounts, grout, glue and VAT			
	<u>FLOOR TILING</u>			
	<u>300 x 300mm white porcelain anti-slip mosaic tiles to match existing (Prime Cost Amount R 157.13/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
1	On shower floors	m2	15	
2	On shower walls	m2	23	
	<u>600 x 600 Granito Grey Porcelain Floor Tile (Prime Cost sum of R 250/m²) , with 6mm joint with white grouting and laid on a thin bed cement based tile adhesive as approved</u>			
3	On floors and landings	m2	693	
4	On narrow widths	m2	3	
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 12 Tiling			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>SANITARY FITTINGS</u>			
	<u>"Lecico" or similar approved</u>			
1	White Eco Basin & Pedestal Combo ECOBPED - Including holes for hot and cold taps (Prime Cost Amount of R 900.00 Each)	No	2	
	<u>"Vaal" or similar approved</u>			
2	"Klip" low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	2	
	<u>"Franke" or similar approved</u>			
3	Wash Trough Double	No	8	
	<u>"Vaal" or similar approved</u>			
4	Constantia white toilet seat with a chrome hinge	No	12	
5	White plumline amaro f/f cistern lid	No	12	
	<u>TRAPS, ETC</u>			
	Carried Forward			R
	Section No. 2 North Hostel Block Bill No. 13 Plumbing and Drainage			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
<u>"ISM" or similar approved</u>				
6	50mm Shower trap including square chromium plated grating	No	14	
<u>TAPS, VALVES, ETC</u>				
<u>"Victory" or similar approved</u>				
7	Icon Red Chrome Plated Scorpio Pillar Tap 15mm SC07 Hot & Cold (Prime Cost Amount of R 500.00 Each) Including Concealed Part	No	2	
<u>Brass shower head or similar approved</u>				
8	"SA03300" - Basic Brass Shower Head 50mm (Prime Cost Amount of R 340.00 Each) inclusive of shower arm	No	12	
<u>"Cobra Watertech" or similar approved</u>				
9	Bath mixer with hand shower	No	1	
10	Shower faucet system with hand shower spray	No	2	
11	Cobra fbbhn2c3-7ft01 Standard hose wall tap brass	No	16	
12	Chrome victory basin pillar tap	No	24	
13	15mm "515/055-21CP" wall mounted medical mixer with "P-WS/6" water saving aerator	No	2	
<u>WATER SUPPLIES</u>				
<u>Class 0 copper pipes</u>				
14	15mm Pipes chased into brick walls	m	60	
<u>ELECTRIC WATER HEATERS</u>				
		Carried Forward		R
Section No. 2 North Hostel Block Bill No. 13 Plumbing and Drainage				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<u>"Kwikot" or similar approved</u>			
15	200 Litre electric water heater wall mounted including standard with overflow pipe	No	6	
	<u>BUDGETARY ALLOWANCES</u>			
	<u>The following budgetary allowances are for work to be executed by the main contractor: This work will be measured and valued at bill rates in accordance with clause 32 of the Principal Building Agreement or omitted if not required</u>			
16	Budgetary allowance of R150,000.00 (One Hundred and Fifty Thousand Rand) for the remedy of waste pipes that may be damaged to ensure full functionality of the buildings drainage system to the Principal Agent's satisfaction.		Item	
	<u>TESTING</u>			
17	Testing water pipe system		Item	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 North Hostel Block Bill No. 13 Plumbing and Drainage			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>GLAZING TO METAL / WOOD WITH PUTTY OR BEADS</u>			
	<u>6,4mm Normal strength obscure laminated safety glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	30	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
	<u>4mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
2	Mirror 600 x 900mm high with four screws	No	10	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	North Hostel Block			
	Bill No. 14			
	Glazing			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PAINTWORK ETC TO EXISTING WORK</u>			
	Note: All paintwork to be "Dulux" or similar approved product			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats interior quality PVA emulsion paint</u>			
1	On internal walls	m2	1,511	
	<u>One coat alkali resistant primer, one undercoat and two coats Grey Chic - 96YY 66/036 and Evening Shadow - 30BB 21/056</u>			
2	On external walls	m2	219	
	<u>ON SMOOTH CONCRETE</u>			
	<u>Two coats "Cemcrete Thermoplastic Coating" applied in strict accordance with the manufacturer's instructions</u>			
3	To soffit of concrete slabs	m2	547	
4	To column	m2	1	
	<u>ON PLASTERBOARD</u>			
	<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
5	On ceilings and cornices	m2	547	
	<u>ON METAL</u>			
	Carried Forward		R	
	Section No. 2 North Hostel Block Bill No. 15 Paintwork			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steels</u>			
6	On door frames	m2	160
7	On metal doors	m2	27
8	On windows with burglar bars	m2	103
9	On staircase handrails	m2	11
<u>ON WOOD</u>			
<u>Three coats polyurethane semi-gloss varnish</u>			
10	On doors	m2	153
<u>ON EXISTING FAIR FACED WALL</u>			
<u>Brick sealent</u>			
11	On walls	m2	856
Carried Forward to Summary of Section No. 2			R
Section No. 2			
North Hostel Block			
Bill No. 15			
Paintwork			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 17</u>			
	<u>MECHANICAL INSTALLATION</u>			
	<u>PROVISIONAL SUMS FOR NOMINATED / SELECTED SUB-CONTRACTS</u>			
1	Provide the sum of R1,150,000.00 (One Million One Hundred and Fifty Thousand Rand) for the supply and installation of Vision Elevators Platform Lift 2 (PL2, 300kg capacity, 0.15ms speed, 2 stops) with Structural Steel frame as per Engineer's drawings, fixed to concrete and brickwork (elsewhere) and finished with Plascon Velvaglo including 114x38mm SA Pine trusses at max 1,200mm centres, fixed onto structural steel frame and brickwork with GRS 0.58mm thick "Klip-Lok 700 profile roll-formed roof cover in continuous lengths from Chromadeck (Colour : Dark Dolphin finish top coat and Pebble Grey backing coat) in single lengths fixed to timber purlins with KL700 clips fixed with 10 no 11 x 45mm long self drilling wafer head PH2 screws in strict accordance with manufacturer's specifications. Including Aluminium Fixed Windows with powdercoat finish as per Architect's specification.	Item		1,150,000.00
2	Profit		%	
3	Allow for general attendance		%	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 North Hostel Block Bill No. 17 Mechanical Installation			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Bill No	<u>SECTION SUMMARY - North Hostel Block</u>	Page No	Amount
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8	Ceilings, Partitioning and Access flooring	69	
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10	Ironmongery	74	
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	Carried to Final Summary		R
	Section No. 2 North Hostel Block		

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 1</u></p> <p><u>ALTERATIONS TO NORTH HOSTEL BLOCK</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>NOTE: Contractors are advised to study the Model Preambles for Trades and PW371 -----</p> <p>All Tenderers will be deemed to have visited the site prior to submitting their tender to determine the nature and extent of the alteration and demolition work and the value of the materials to be recovered. No claim for a variation in the credit allowance for recoverable materials in respect of demolition items will be considered.</p> <p>All sizes and dimensions stated herein are approximate and deemed only sufficient to identify the item of work concerned.</p> <p>In taking down and removing existing work the utmost care must be taken to avoid any structural or other damage to the remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc to ensure the stability of all structures during the alteration/demolition work. The Contractor will be held solely responsible for the safety and stability of the buildings for the whole period of the contract and must make good any damage at his own expense.</p> <p>Existing services must be maintained at all times to the existing buildings. If it is found necessary to disconnect any service then suitable temporary or alternate services must be provided to the existing buildings.</p> <p>Special care shall be exercised during the progress of the work to ensure that any electrical installation, water supply pipes, telephone and other services which may be encountered are not interfered with and notice must be given to the Principal agent if any disconnection or alterations become necessary.</p> <p>The Contractor shall cover up and protect from injury all</p>			
		R	
		Carried Forward	
<p>Section No. 3 South Hostel Block Bill No. 1 Alterations</p>			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01

REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

<p style="text-align: center;">Brought Forward</p> <p>work not removed and shall make good at his own expense any damage that may occur.</p> <p>Any water supply or other piping, etc that may be encountered and found necessary to disconnect or cut are to be effectually stopped off and any new connections that may be necessary shall be made with the proper fittings to the satisfaction of the Principal Agent. Where sanitary fittings, geysers, etc are to be removed the Contractor shall allow for removing all exposed waste or water supply pipes to the nearest suitable junction or connection and stopping off, as well as for making good plaster, screeds, etc.</p> <p>Prices for the removal of concrete slabs, etc must include for removal of reinforcement, screeds, membrane waterproofing, conduits, etc.</p> <p>Prices for the removal of concrete surface beds, etc must include for removal of reinforcement, screeds, conduits, damp proof membrane, etc. The Contractor is to note that removal of the existing floor finishes such as vinyl, carpets, ceramic tiles, etc has been measured separately.</p> <p>Taking down existing walls is to include for skirtings, cornices, conduits, pipes, brick or concrete fins, lintels, etc built into the structure and for making good walls, floors, ceilings, etc as described. The Contractor is to note that items for the removal of joinery, etc such as shelves, pelmets, curtain rails, pinning boards, signage, etc has been measured separately.</p> <p>Removal of doors, windows, fittings, etc is to include for their removal complete with frames, ironmongery, glass, quadrants, architraves, skirtings, burglar bars and all accessories to walls, reveals, around openings, for cutting out cills, etc, for hacking up flooring at openings and for making good.</p> <p>Removal of sanitary fittings is to include for the removal and blocking off of service pipes, taps, traps, fixing brackets, cisterns, etc complete.</p> <p>Building up of existing openings where given in number shall be deemed to include preparing existing surfaces all round, brickwork properly toothed and bonded to existing and shot pinned to concrete, wedging up and unless otherwise stated making good finishes on both</p>	R	
<p style="text-align: center;">Carried Forward</p> <p>Section No. 3 South Hostel Block Bill No. 1 Alterations</p>	R	

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<p>sides to match existing.</p> <p>Allow for watering the works sufficiently to prevent nuisance from dust.</p> <p>OLD MATERIALS TO BE CARTED AWAY: Old materials from the alterations, except where described to be re-used or handed over, as well as all rubbish, rubble, debris etc., must be regularly carted from the site and not be allowed to accumulate on or around the site.</p> <p>OLD MATERIALS NOT TO BE RE-USED: None of the old materials are to be used for new work except where specifically described as being set aside for re-use.</p> <p>OLD MATERIALS TO BECOME THE PROPERTY OF THE CONTRACTOR: Old materials from alterations, except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.</p> <p>HANDING OVER OF MATERIALS: Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, such materials or articles shall be properly stored by the Contractor, until handing over thereof. The Contractor must obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof, which amount will be deducted from any monies due to the Contractor.</p> <p style="text-align: center;">-----</p> <p><u>REMOVAL OF EXISTING WORK</u></p> <p><u>Scarifying of existing surface bed</u></p>			
1	Internal concrete surface	m2	6	
	Carried Forward			R
	Section No. 3 South Hostel Block Bill No. 1 Alterations			

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 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Breaking down and removing concrete works etc</u>			
2	External concrete surface	m2	113
3	Aprons	m2	122
<u>Breaking down and removing brickwork etc</u>			
4	Mass brickwork	m2	20
<u>Taking down and removing roofs, etc</u>			
5	Carefully take out and remove existing IBR roofing sheeting, existing trusses to receive new roof covering (measured elsewhere)	m2	849
6	Carefully take out and remove existing ceiling and brandering to receive new ceiling (measured elsewhere)	m2	547
<u>Taking out and removing doors, windows, etc including thresholds, sills, etc including making good face brickwork on both sides</u>			
7	Timber single door 813 x 2032mm high	No	42
8	1613 x 2032mm Fixed panel doors	No	2
<u>Hacking up/off and removing existing tiling and preparing surfaces for new tiling (measured elsewhere)</u>			
9	On floors	m2	693
10	On walls	m2	20
<u>Taking out and removing carpentry and joinery work, and prepare surface to receive new (Measured elsewhere)</u>			
11	Built-In-Cupboards (2100 x 1000 x 900mm)	No	24
12	Pin-up Board	No	1
Carried Forward			R
Section No. 3 South Hostel Block Bill No. 1 Alterations			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Taking out and removing damaged sundry joinery work, and prepare surface to receive new timber skirting (Measured elsewhere)</u>			
13	Timber skirting from brickwork (Provisional)	m	20
<u>Taking out and removing glass and mirrors</u>			
14	Carefully remove cracked or broken glazing in panes exceeding 0,1m ² and not exceeding 0,5m ² in existing metal windows and doors including scraping out putty on reveals and prepare windows and or doors to receive new glazing (New glazing elsewhere measured)	No	20
<u>Taking out and removing existing ironmongery, replace with new (Measured elsewhere) and make electrical connections safe</u>			
15	Franke Wash Trough Double	No	1
16	Soap dispenser	No	8
17	Paper towel dispenser	No	2
18	Wall mounted bin	No	4
19	Toilet paper roll holder	No	12
<u>Taking out and removing taps, and prepare surface to receive new (Measured elsewhere)</u>			
20	Body bip taps 15mm	No	2
<u>PREPARATORY WORK TO EXISTING SURFACES</u>			
Carried Forward			R
Section No. 3 South Hostel Block Bill No. 1 Alterations			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Scrabble existing surface of fair faced wall and prepare internal surface to receive new brick dresser (new brick sealant elsewhere measured)</u>			
21	On internal walls	m2	525
22	On external walls	m2	207
23	On soffits	m2	547
<u>Scraping and removing existing paint to walls and prepare surface to receive new paint (new paint measured elsewhere)</u>			
24	On internal walls	m2	1,478
25	On external walls	m2	320
<u>Scraping and removing existing paint to door & window frames and preparing surface to receive new paint finish (new paint finish measured elsewhere)</u>			
26	Door frames	m2	149
27	Metal doors	m2	27
28	Window frames with burglar bars	m2	103
29	Staircase handrails	m	11
<u>SERVICING EXISTING ITEMS</u>			
<u>Servicing existing windows</u>			
30	Carefully examine hinges, handles and stays to steel windows, replace putty to glazing of steel windows and fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent	No	153
<u>Servicing existing gates</u>			
31	Carefully examine burglar bars, hinges, handles and stays to steel gates, fully service same to facilitate smooth functionality, all to the satisfaction of the Principal Agent	No	7
Carried Forward			R
Section No. 3 South Hostel Block Bill No. 1 Alterations			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward		R
<u>Sanitary fittings etc</u>		
32	Carefully examine hand wash basins, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 13
33	Carefully examine water closets, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 12
34	Carefully examine urinal, flushing mechanism, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 2
35	Carefully examine bath tub, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 1
36	Carefully examine shower, taps, traps and piping for any leaks, worn parts, etc. repair and fully service same to ensure functionality, all to the satisfaction of the Principal Agent	No 12
<u>CLEANING EXISTING SURFACES</u>		
<u>Cleaning existing surfaces with SABS approved products</u>		
37	Wall tiles	m2 82
38	Floor surfaces	m2 352
Carried Forward		R
Section No. 3 South Hostel Block Bill No. 1 Alterations		

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 2</u>			
	<u>EARTHWORKS (PROVISIONAL)</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Nature of ground</u>			
	The nature of the ground is assumed to be loose sandy material, therefore "earth", but possibly interspersed with "hard rock" or "soft rock"			
	<u>Carting away of excavated material</u>			
	Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site			
	<u>SITE CLEARANCE ETC</u>			
	<u>Site clearance</u>			
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	72	
2	Stripping average 150mm thick layer of top soil and stockpiled	m2	72	
	<u>REMOVAL OF TREES ETC</u>			
	Carried Forward			R
	Section No. 3 South Hostel Block Bill No. 2 Earthworks			

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 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Cutting down and removing, grubbing up roots and filling in holes</u>			
3	Tree exceeding 200mm and not exceeding 500mm girth	No	1
<u>EXCAVATION, FILLING, ETC</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
4	Trenches	m3	38
5	Holes	m3	Rate only
<u>Extra over trench and hole excavations in earth for excavation in</u>			
6	Soft rock	m3	Rate Only
7	Hard rock	m3	Rate Only
<u>Extra over all excavations for carting away</u>			
8	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	22
<u>Risk of collapse of excavations</u>			
9	Sides of trench and hole excavations not exceeding 1,5m deep	m2	125
<u>Keeping excavations free of water</u>			
10	Keeping excavations free of all water other than subterranean water	Item	
<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u>			
11	Backfilling to trenches, holes, etc	m3	16
<u>Earth filling obtained from commercial source</u>			
12	Selected fill from Commercial Sources (G7) compacted in 150mm layers to 93% Mod AASHTO Density at -2% to +1% of OMC	m3	14
Carried Forward			R
Section No. 3 South Hostel Block Bill No. 2 Earthworks			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 3</u></p> <p><u>MASONRY</u></p> <p>Tenderers are advised to study the Model Preambles for Trades before pricing this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Brickwork</u></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.</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc</p> <p style="text-align: center;">-----</p>			
	Carried Forward		R	
	Section No. 3 South Hostel Block Bill No. 3 Masonry			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>SUBSTRUCTURE</u>			
<u>BRICKWORK IN FOUNDATIONS</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u>			
1	One brick walls	m2	41
<u>Facebrick Work in "Corobrik Namib Red Travertine FBS " face bricks (Prime Cost R8350.00 per 1000 Bricks delivered to site and excluding VAT) pointed with recessed horizontal and flush vertical joints Walls faces on both sides</u>			
2	Extra over brickwork for face brickwork in foundations	m2	16
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
3	150mm Wide reinforcement built in horizontally	m	475
<u>SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks in class II mortar</u>			
4	One brick walls	m2	246
<u>BRICKWORK SUNDRIES</u>			
<u>Brickwork reinforcement</u>			
5	150mm Wide reinforcement built in horizontally	m	793
<u>Prestressed fabricated lintels</u>			
6	110 x 75mm Lintels in lengths not exceeding 3m	m	2
<u>Turning pieces</u>			
7	220mm Wide turning piece to lintels etc	m	1
<u>FACE BRICKWORK</u>			
Carried Forward			R
Section No. 3 South Hostel Block Bill No. 3 Masonry			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<u>Facebrick Work in "Corobrik Namib Red Travertine</u> <u>FBS " face bricks (Prime Cost R8350.00 per 1000</u> <u>Bricks delivered to site and excluding VAT) pointed</u> <u>with recessed horizontal and flush vertical joints</u> <u>Walls faces on both sides</u>			
8	Double skin brick walls faced both sides built in stretcher bond	m2	24	
9	Extra over brickwork for brick-on-edge header course lintel pointed on face and 230mm soffit	m	10	
	<u>Facebrick Work in "Corobrik Namib Red Travertine</u> <u>FBS " face bricks (Prime Cost R8350.00 per 1000</u> <u>Bricks delivered to site and excluding VAT) pointed</u> <u>with recessed horizontal and flush vertical joints</u> <u>Walls faces on both sides</u>			
10	Extra over brickwork for face brickwork	m2	91	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	South Hostel Block			
	Bill No. 3			
	Masonry			

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Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 4</u></p> <p><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></p> <p>Tenderers are advised to study the Model Preambles for Trades before pricing this Bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></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 SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the architect. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect. (Test cubes are measured separately)</p> <p><u>Formwork</u></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.</p> <p>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>			
		R	
	Carried Forward		
<p>Section No. 3 South Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement</p>			

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	Brought Forward			R
	Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described			
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design 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"			

	<u>REINFORCED CONCRETE ON EXCAVATED SURFACES</u>			
	<u>25MPa/19mm concrete</u>			
1	Surface beds on waterproofing	m3	11	
2	Strip footings	m3	13	
3	Ramps (Provisional)	m3	14	
4	Aprons	m3	12	
	<u>REINFORCED CONCRETE</u>			
	<u>25Mpa/19mm concrete</u>			
5	Slabs including beams and inverted beams	m3	1	
6	Walls in foundations (Provisional)	m3	1	
7	Concrete walls	m3	1	
8	Columns	m3	0.2	
9	Sloping slabs	m3	11	
	Carried Forward			R
	Section No. 3 South Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
<u>TEST BLOCKS</u>				
10	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	10	
<u>CONCRETE SUNDRIES</u>				
<u>Finishing top surfaces of concrete smooth with a steel float</u>				
11	Surface beds, slabs, etc	m2	200	
<u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u>				
<u>Rough formwork to sides</u>				
12	Walls in foundations (Provisional)	m2	6	
<u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u>				
<u>Smooth formwork to sides</u>				
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	7	
14	Rectangular columns with total height not exceeding 3.5m above bearing level	m2	4	
<u>Smooth formwork to soffits</u>				
15	Slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m2	5	
<u>Smooth formwork to sloping soffits</u>				
16	Slabs not exceeding 250mm thick propped up exceeding 1,5m and not exceeding 3,5m high	m2	20	
<u>Smooth formwork to sides of concrete walls</u>				
17	Concrete walls propped up exceeding 1,0m and not exceeding 3,5m high	m2	6	
Carried Forward				R
Section No. 3 South Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement				

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Brought Forward			R
<u>MOVEMENT JOINTS ETC</u>			
<u>Saw cut joints</u>			
18	3 x 40mm Saw cut joints in top of concrete	m	136
<u>Expansion joints with 10mm Softboard between vertical concrete and brick surfaces</u>			
19	Surface bed not exceeding 300mm thick	m	17
<u>REINFORCEMENT (PROVISIONAL)</u>			
<u>High tensile steel reinforcement to structural concrete work</u>			
20	All Diameter bars	t	0.48
<u>Fabric reinforcement</u>			
21	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	119
22	Type 617 fabric reinforcement in concrete foundations	m2	57
Carried Forward to Summary of Section No. 3			R
Section No. 3 South Hostel Block Bill No. 4 Concrete, Formwork and Reinforcement			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 5</u>			
	<u>WATERPROOFING</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements, etc. shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc. with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs.			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u>			
1	In walls	m2	21	
	<u>One layer of 250 micron "Consol Plastics Gunplas USB Green" waterproof sheeting sealed at laps with "Gunplas Pressure Sensitive Tape"</u>			
2	Under surface beds	m2	172	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, SHOWERS, ETC</u>			
	<u>"Sika Cemflex" or similar approved waterproofing as per manufacturer's specifications</u>			
3	On shower floors and walls to receive tiles	m2	15	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 South Hostel Block Bill No. 5 Waterproofing			

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 6</u>			
	<u>ROOF COVERINGS ETC</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,6mm "IBR" Z200 spelter galvanised sheet steel with "Chromadek®" colour coated finish to one side and standard backing coat in single lengths fixed to mild steel channel/ timber purlins/ girts</u>			
1	Roof covering with pitch not exceeding 25 degrees, fixed on existing roof trusses	m2	658	
2	Side cladding	m2	199	
3	Ridge capping 450mm girth	m	47	
4	Cover wall flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	186	
5	Head wall flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	93	
6	Drip flashing 462mm girth 2 (two) times bent and notched on site to suit roof profile	m	23.6	
	Carried Forward			R
	Section No. 3 South Hostel Block Bill No. 6 Roof covering, etc			

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	Brought Forward			R
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Alucushion" insulation</u>			
7	4mm Alulite® FR (Fire Retardant) - white polyethylene coated single sided aluminium foil insulation Code FTC 16/082 as supplied by Alulite®. Laid taut over purlins and fixed concurrent with roof covering; overlapped longitudinally by 100mm; on and including white PVC coated straining wire spaced at 383mm centres; all in strict accordance with the manufacturers specifications	m2	652	
	<u>SUNDRIES</u>			
	<u>0.6 IBR closures</u>			
8	IBR profiled roof closures	m	280	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	South Hostel Block			
	Bill No. 6			
	Roof covering, etc			

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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 7</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Particle board</u></p> <p>Particle board shall comply with the following specifications:</p> <p>a) SABS 1300 Particle board: exterior and flooring type</p> <p>b) SABS 1301 Particle board: interior type</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 include pelleting of bolt holes</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><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>			
		R	
	Carried Forward		
Section No. 3 South Hostel Block Bill No. 7 Carpentry and Joinery			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

				R
	Brought Forward			
	<u>SKIRTINGS</u>			
	<u>Meranti</u>			
1	19 x 76mm Skirting including 19mm quadrant bead nailed	m	20	
	<u>Doors</u>			
	<u>Wrought meranti</u>			
2	Meranti F/Back doors (PC R2200.00/No)	No	43	
3	44mm Standard 2032 x 813 flush panel, hollow core door with masonite veneer, edged with hardwood edging strips all around	No	2	
	<u>"Bitcon Industries" fire doors with 3mm thick Masonite to both sides</u>			
4	Class B fire double door 1 800 x 2 032mm high including pressed steel frame for one brick wall and preparing frame for door closer (Installation only)	No	2	
	<u>JOINERY WORKS - BUILT IN CUPBOARDS</u>			
5	Allow the Provisional Amount of R762,000.00 (Seven Hundred and Sixty Two Thousand Rand) for Joinery Works - Built in Cupboards to be done by a Selected Sub-contractor		Item	
6	Add for profit			%
7	Add for general attendance			%
	Carried Forward			R
	Section No. 3 South Hostel Block Bill No. 7 Carpentry and Joinery			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward		R
	<u>JOINERY WORKS - KITCHENS AND COUNTER TOPS</u>		
8	Allow the Provisional Amount of R60,000.00 (Sixty Thousand Rand) for Joinery Works - Kitchens and counter tops to be done by a Selected Sub-contractor	Item	
9	Add for profit		%
10	Add for general attendance		%
Carried Forward to Summary of Section No. 3			R
Section No. 3 South Hostel Block Bill No. 7 Carpentry and Joinery			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 8</u></p> <p><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Fixing</u></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>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><u>Ceilings</u></p> <p>Unless otherwise described ceilings shall be deemed to be horizontal</p> <p><u>Bulkheads</u></p> <p>Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features</p> <p>Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm. Where these dimensions are more than 900mm such portions of ceilings have been included in the appropriate general items of ceilings</p> <p>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p>			
Carried Forward			R
<p>Section No. 3 South Hostel Block Bill No. 8 Ceilings, Partitioning and Access flooring</p>			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
<u>Steel components</u>				
All steel components for ceilings, partitions, etc. are to be galvanised in accordance with SANS 121				

<u>NAILED UP CEILINGS</u>				
<u>'Donn Flush Plastered' ceiling formed of 9,5mm 'Rhinoboard' taper edged gypsum plasterboard screwed to 'Donn T37K' galvanised steel tee flush plastered suspension system with drywall screws spaced at 250mm centres, including galvanised main tees at 1200mm centres and cross tees at 400 mm centres, all suspended with galvanised 19mm straps at not exceeding 1200mm centres, with 48mm wide strips of 'Fibatape' fixed over joints and the whole finished with minimum 3mm and maximum 6mm thick coat of 'Rhinolite or 'Crestestone' gypsum skim plaster trowelled to smooth polished surface in strict accordance with the manufacturer's instructions</u>				
<u>6mm "Everite Nutec" fibre-cement plasterboard with H-type pressed steel jointing strips</u>				
1	Ceilings including steel hangers and cross tees at 600mm centres fixed to steel roof trusses	m2	1,094	
2	Extra over ceiling for 700 x 700mm trap door of steel hangers and cross tees rebated framing covered with ceiling board and fitted flush opening (Provisional)	No	16	
<u>"Donn" cornices, perimeter trims, etc to suspended ceilings</u>				
3	"25 x 25mm" pre-painted recessed wall angle, plugged (shadow line)	m	866	
Carried Forward to Summary of Section No. 3				R
Section No. 3 South Hostel Block Bill No. 8 Ceilings, Partitioning and Access flooring				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 9</u></p> <p><u>METALWORK</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill. -----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of bolts, expansion anchors and bolts and chemical anchors and bolts shall be deemed to include all holes, nuts, washers and mortices in brickwork or concrete -----</p> <p><u>Standard of finish</u></p> <p>All stainless steel material to be used to be of stainless steel Grade 304, brushed to 180 grit</p> <p>All mild and structural steel shall be painted as follows unless otherwise stated:</p> <p>Apply one coat UC 182 "Plascon Plascoprime" Primer in accordance with manufacturers specification.</p> <p>Apply two coats "Plascon Velvagio" Water Based Enamel colour mouse grey in accordance with manufacturers specification.</p> <p><u>Fastening</u></p> <p>Unless otherwise stated, all connections to:</p> <ul style="list-style-type: none"> • Concrete shall be chemically anchored • Brickwork shall be expansion bolts • Metal to metal connections shall be welded 			
		R	
	Carried Forward		
Section No. 3 South Hostel Block Bill No. 9 Metalwork			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
<u>Compliance</u>				
All balustrading to comply with SANS 10400 & SANS 10160. Installer to table a Balustrade Compliance Certificate on completion of balustrade installation				
All angle deviations horizontal or vertical to be by means of seamless mitred joints except for landing termination bends. Workmanship sample to be tabled for approval				
Shop drawings are to be tabled for approval before manufacturing				
<u>STEEL BALUSTRADES</u>				
<u>Hot dip galvanised Mild Steel ball type handrails and accessories as manufactured and supplied by Andrew Mentis (Pty) Ltd or Vital Engineering & Angus Mcleod (Pty) Ltd or other equal and approved, erected in strict accordance with the Manufacturer's Instructions and Specifications</u>				
The items listed below are to be inclusive of the costs for supply and installation				
1	Handrailing consisting of stanchions, rails at 1,000mm and 500mm, fixing bolts, bends, closures, etc, all inclusive, to perimeter of floors	m	9	
2	Ditto, but to ramps	m	34	
Carried Forward to Summary of Section No. 3				R
Section No. 3 South Hostel Block Bill No. 9 Metalwork				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 10</u>			
	<u>IRONMONGERY</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Finishes to ironmongery</u>			
	<u>All items necessary to be replaced should match existing or similar approved</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list:			
	BS - Satin bronze lacquered			
	CH - Chromium plated			
	SC - Satin chromium plated			
	SE - Silver enamelled			
	GE - Grey enamelled			
	AS - Anodised silver			
	AB - Anodised bronze			
	AG - Anodised gold			
	ABL - Anodised black			
	PB - Polished brass			
	PL - Polished and lacquered			
	PT - Epoxy coated			
	SD - Sanded			

	<u>BATHROOM FITTINGS</u>			
	<u>Shower panel doors</u>			
1	1074 X 1800mm White shower pivot	No	12	
	<u>"Franke" or similar approved</u>			
2	Wall mounted foldable shower seat	No	2	
	Carried Forward			R
	Section No. 3 South Hostel Block Bill No. 10 Ironmongery			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
		<u>"Hailcast" or similar approved</u>		
3	Approved plastic shower curtain to fit opening 2 500mm wide, including hangers, fixed to rail (e/m)	No	2	
		<u>"Twinsaver" or similar approved</u>		
4	"0530" - Foam soap dispenser	No	8	
5	"0571" - TR2 Toilet paper holder	No	12	
6	chrome shower soap holder	No	14	
7	Slimroll Hand Towel Dispenser	No	4	
8	Stainless steel wall mounted bin (18L)	No	6	
		<u>Purpose made wall mounted grab rails</u>		
9	Splashaid dog leg grab rail 604 x 304 x 106mm	No	2	
10	750mm Plumline ss cistern grab rail	No	2	
11	600mm Splashaid straight grab rail	No	14	
		<u>HINGES, BOLTS, ETC</u>		
		<u>"Union" or similar approved</u>		
12	102 x 75 x 3mm Door hinge	No	45	
		<u>WRITING BOARDS, PINNING BOARD, ETC</u>		
		<u>"Parrot products"</u>		
13	"BDO476" 3000 X 1200mm Aluminium framed carpet bulletin board	No	1	
		Carried Forward		
		R		
Section No. 3 South Hostel Block Bill No. 10 Ironmongery				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<u>LOCKS</u>			
	<u>"QS Products" or similar approved</u>			
14	"QS575/1" Three ever cylinder latch lock and deadbolt	No	46	
	<u>HANDLES</u>			
	<u>"Dormakaba" or similar approved</u>			
15	Satin Chrome CB30 handle on 40 x 190mm round keyhole plate	No	45	
	<u>LETTERS, NAMEPLATES, ETC</u>			
16	60 x 3mm Thick perspex plate with two 40mm high engraved and painted numerals	No	44	
	<u>SUNDRIES</u>			
	<u>"Union" or similar approved</u>			
17	"AL8730AS" door stop plugged	No	45	
18	"QS4434" rubber tipped hat and coat hook	No	12	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	South Hostel Block			
	Bill No. 10			
	Ironmongery			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 11</u>			
	<u>PLASTERING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this Bill.			
	<u>EXTERNAL PLASTER</u>			
	<u>One coat plaster (1:5) wood floated on concrete</u>			
1	On walls	m2	12	
2	On colounms and beams	m2	1	
	<u>INTERNAL PLASTER</u>			
	<u>1:4 Cement plaster on brickwork finished with a plastic trowel</u>			
3	On walls	m2	33	
	<u>SCREEDS</u>			
	<u>Screeds on concrete</u>			
4	30mm Thick on floors and landings	m2	6	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic floor finish on concrete</u>			
5	40mm Thick Sloping on floors and landings	m2	6	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	South Hostel Block			
	Bill No. 11			
	Plastering			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 12</u>			
	<u>TILING</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	NOTE: PC Amount refer to the cost of material delivered to site excluding any discounts, grout, glue and VAT			
	<u>FLOOR TILING</u>			
	<u>300 x 300mm white porcelain anti-slip mosaic tiles to match existing (Prime Cost Amount R 157.13/m2) fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound</u>			
1	On shower floors	m2	15	
2	On shower walls	m2	23	
	<u>600 x 600 Granito Grey Porcelain Floor Tile (Prime Cost sum of R 250/m²) , with 6mm joint with white grouting and laid on a thin bed cement based tile adhesive as approved</u>			
3	On floors and landings	m2	693	
4	On narrow widths	m2	3	
	Carried Forward		R	
	Section No. 3 South Hostel Block Bill No. 12 Tiling			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 13</u>			
	<u>PLUMBING AND DRAINAGE (PROVISIONAL)</u>			
	Tenderers are advised to study the Model Preambles for Trades before pricing this Bill			

	<u>SANITARY FITTINGS</u>			
	<u>"Lecico" or similar approved</u>			
1	White Eco Basin & Pedestal Combo ECOBPED - Including holes for hot and cold taps (Prime Cost Amount of R 900.00 Each)	No	2	
	<u>"Vaal" or similar approved</u>			
2	"Klip" low level wc suite comprising pan with double flap heavy duty plastic seat and matching 9 litre cistern with flush pipe	No	2	
	<u>"Franke" or similar approved</u>			
3	Wash Trough Double	No	8	
	<u>"Vaal" or similar approved</u>			
4	Constantia white toilet seat with a chrome hinge	No	12	
5	White plumline amaro f/f cistern lid	No	12	
	<u>TRAPS, ETC</u>			
	Carried Forward		R	
	Section No. 3 South Hostel Block Bill No. 13 Plumbing and Drainage			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
		<u>"ISM" or similar approved</u>		
6	50mm Shower trap including square chromium plated grating	No	14	
		<u>TAPS, VALVES, ETC</u>		
		<u>"Victory" or similar approved</u>		
7	Icon Red Chrome Plated Scorpio Pillar Tap 15mm SC07 Hot & Cold (Prime Cost Amount of R 500.00 Each) Including Concealed Part	No	2	
		<u>Brass shower head or similar approved</u>		
8	"SA03300" - Basic Brass Shower Head 50mm (Prime Cost Amount of R 340.00 Each) inclusive of shower arm	No	12	
		<u>"Cobra Watertech" or similar approved</u>		
9	Bath mixer with hand shower	No	1	
10	Shower faucet system with hand shower spray	No	2	
11	Cobra fbbhn2c3-7ft01 Standard hose wall tap brass	No	16	
12	Chrome victory basin pillar tap	No	24	
13	15mm "515/055-21CP" wall mounted medical mixer with "P-WS/6" water saving aerator	No	2	
		<u>WATER SUPPLIES</u>		
		<u>Class 0 copper pipes</u>		
14	15mm Pipes chased into brick walls	m	60	
		<u>ELECTRIC WATER HEATERS</u>		
		Carried Forward		
		R		
Section No. 3 South Hostel Block Bill No. 13 Plumbing and Drainage				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward		R
	<u>BUDGETARY ALLOWANCES</u>		
	<u>The following budgetary allowances are for work to be executed by the main contractor: This work will be measured and valued at bill rates in accordance with clause 32 of the Principal Building Agreement or omitted if not required</u>		
16	Budgetary allowance of R150,000.00 (One Hundred and Fifty Thousand Rand) for the remedy of waste pipes that may be damaged to ensure full functionality of the buildings drainage system to the Principal Agent's satisfaction.	Item	
	<u>TESTING</u>		
17	Testing water pipe system	Item	
	Carried Forward to Summary of Section No. 3		R
	Section No. 3 South Hostel Block Bill No. 13 Plumbing and Drainage		

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 14</u>			
	<u>GLAZING</u>			
	<u>GLAZING TO METAL / WOOD WITH PUTTY OR BEADS</u>			
	<u>6,4mm Normal strength obscure laminated safety glass</u>			
1	Panes exceeding 0,1m2 and not exceeding 0,5m2	m2	30	
	<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
	<u>4mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
2	Mirror 600 x 900mm high with four screws	No	10	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	South Hostel Block			
	Bill No. 14			
	Glazing			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 15</u>			
	<u>PAINTWORK</u>			
	<u>PAINTWORK ETC TO EXISTING WORK</u>			
	Note: All paintwork to be "Dulux" or similar approved product			
	<u>ON FLOATED PLASTER</u>			
	<u>One coat alkali resistant primer, one undercoat and two coats interior quality PVA emulsion paint</u>			
1	On internal walls	m2	1,511	
	<u>One coat alkali resistant primer, one undercoat and two coats Grey Chic - 96YY 66/036 and Evening Shadow - 30BB 21/056</u>			
2	On external walls	m2	219	
	<u>ON SMOOTH CONCRETE</u>			
	<u>Two coats "Cemcrete Thermoplastic Coating" applied in strict accordance with the manufacturer's instructions</u>			
3	To soffit of concrete slabs	m2	547	
4	To column	m2	1	
	<u>ON PLASTERBOARD</u>			
	<u>One coat primer and two coats interior quality PVA emulsion paint</u>			
5	On ceilings and cornices	m2	547	
	<u>ON METAL</u>			
	Carried Forward		R	
	Section No. 3 South Hostel Block Bill No. 15 Paintwork			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Spot priming defects in pre primed surfaces with zinc chromate primer and applying one undercoat and two coat high gloss enamel paint on steels</u>			
6	On door frames	m2	160
7	On metal doors	m2	27
8	On windows with burglar bars	m2	103
9	On staircase handrails	m2	11
<u>ON WOOD</u>			
<u>Three coats polyurethane semi-gloss varnish</u>			
10	On doors	m2	153
<u>ON EXISTING FAIR FACED WALL</u>			
<u>Brick sealent</u>			
11	On walls	m2	856
Carried Forward to Summary of Section No. 3			R
Section No. 3			
South Hostel Block			
Bill No. 15			
Paintwork			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
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 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<p><u>SECTION NO. 3</u></p> <p><u>BILL NO. 16</u></p> <p><u>TERMITE POISONING</u></p> <p>Tenderers are advised to study the Model Preambles for Trades before pricing this Bill</p> <p style="text-align: center;">-----</p> <p><u>BUDGETARY ALLOWANCES</u></p> <p><u>Soil insecticide to bottom of existing building</u></p>			
1	Provide the sum of R60,000.00 (Sixty Thousand Rand) for pest control, insecticide to be drilled into floors, walls, etc. Including forming and poisoning shallow furrows	Item		
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 South Hostel Block Bill No. 16 Termite poisoning			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3</u>			
	<u>BILL NO. 17</u>			
	<u>MECHANICAL INSTALLATION</u>			
	<u>PROVISIONAL SUMS FOR NOMINATED / SELECTED SUB-CONTRACTS</u>			
1	Provide the sum of R1,150,000.00 (One Million One Hundred and Fifty Thousand Rand) for the supply and installation of Vision Elevators Platform Lift 2 (PL2, 300kg capacity, 0.15ms speed, 2 stops) with Structural Steel frame as per Engineer's drawings, fixed to concrete and brickwork (elsewhere) and finished with Plascon Velvaglo including 114x38mm SA Pine trusses at max 1,200mm centres, fixed onto structural steel frame and brickwork with GRS 0.58mm thick "Klip-Lok 700 profile roll-formed roof cover in continuous lengths from Chromadeck (Colour : Dark Dolphin finish top coat and Pebble Grey backing coat) in single lengths fixed to timber purlins with KL700 clips fixed with 10 no 11 x 45mm long self drilling wafer head PH2 screws in strict accordance with manufacturer's specifications. Including Aluminium Fixed Windows with powdercoat finish as per Architect's specification.	Item		1,150,000.00
2	Profit		%	
3	Allow for general attendance		%	
	Carried Forward to Summary of Section No. 3		R	
	Section No. 3 South Hostel Block Bill No. 17 Mechanical Installation			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Bill No	<u>SECTION SUMMARY - South Hostel Block</u>	Page No	Amount
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15	Paintwork	127	
16	Termite poisoning	128	
17	Mechanical Installation	129	
	Carried to Final Summary		R
	Section No. 3 South Hostel Block		

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<u>SECTION NO. 4</u>			
<u>BILL NO. 1</u>			
<u>ELECTRICAL INSTALLATION</u>			
<u>PROVISIONAL SUMS FOR NOMINATED / SELECTED SUB-CONTRACTS</u>			
1			
	Item		2,750,000.00
2	Profit	%	
3	Allow for general attendance	%	
Carried to Final Summary			
			R
Section No. 4 Electrical Works Bill No. 1 Electrical Works			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 5</u>			
	<u>BILL NO. 1</u>			
	<u>FIRE INSTALLATIONS</u>			
	<u>PROVISIONAL SUMS FOR NOMINATED / SELECTED SUB-CONTRACTS</u>			
1	Provide the sum of R484,500.00 (Four Hundred and Eighty Four Thousand Five Hundred) for Fire Installation (inclusive of all fittings), supplied and installed complete	Item		484,500.00
2	Profit		%	
3	Allow for general attendance		%	
	Carried to Final Summary			
	Section No. 5 Building Fire reticulation Bill No. 1 Building Fire reticulation		R	

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 3 - BOUNDARY FENCING</u>			
	<u>BILL NO. 1</u>			
	<u>BOUNDARY FENCING</u>			
	<u>SITE CLEARANCE</u>			
1	Allow for clearing site for the width of 2m where fence runs are to be erected including removing trees, shrubs etc not exceeding 200mm girth, grubbing up roots and roughly levelling	m2	660	
	<u>GALVANISED FENCING</u>			
	<u>DEFENCE RATED 3 CLEAR VU INVINCIBLE WALL FENCING (ClearVU) CAT3</u>			
	REFERENCES CODES AND STANDARDS A. CSIR, SABS, North Atlantic Treaty Organization (NATO) and International Aviation Authority Organization (ICAO). CSIR Test: 050036, 050056, T09998 SABS Test: 2536/YM139 Nato Stock :5660-99-458-7414 ICAO ICAO Security Manual			
	PART 1 PRODUCTS 2.1 GENERAL A. All steel materials shall be of good commercial quality, galvanized steel. B. All pipes shall be galvanized, one piece without joints. Furnish moisture proof caps for all posts. C. Zinc coating shall be smooth and essentially free from lumps, globs, or points. D. Miscellaneous material shall be galvanized.			
	2.2 SUGGESTED MANUFACTURER: COCHRANE			
	2.3 DESCRIPTION OF FENCE SYSTEM:			
	Carried Forward		R	
	Section No. 6 External Works Bill No. 1 Fencing			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
2	Posts Shall be Embedded 600mm deep x 400 x 400 with 15 - 25 MPA Concrete Post shall be 2.8m long Taper Locking Post. Post width shall be 85mm-tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge. Post finish shall be galvanized, then Color Coated in jet black polymeric 6000 coated.	No	100
3	Corner Posts Shall be Embedded 600mm deep x 400 x 400 with 15 - 25 MPA Concrete Post shall be 3.0m long Taper Locking Post. Post width shall be 85mm-tapering to 45mm with a depth of 85mm. Post shall include 'Locking Recess Mechanism' to secure panel edge. Post finish shall be galvanized, then Color Coated in jet black polymeric 6000 coated.	No	12
4	Panel shall be of 3,305m width and 2.4 m in height. Panel aperture size (centers) shall be 76.2 x 12.7mm Wire diameter will be 3.5mm - Coated Product. The panel shall be reinforced with 4 x 50mm deep 'V' formation horizontal recessed bands (rigidity) Panel shall have 2 x 70° flanges along sides (internal fixtures- all fixtures shall be on the inside of fence line) Panel shall have 2x 30° flange along top and toe (integrated rigid angle). Panel post shall have a flush panel post finish with no climbing aid. Panel shall be affixed to post over 48 line wires using 8 x Double bolt comb clamps and 8 x Single bolt comb clamps using 24 x Anti vandal bolts. Panel and fixtures shall be galvanized and then Color Coated in jet black polymeric 6000 coat.	No	100
5	Fully coated spike rails in Polymetic 6000 to be fitted on top on fence	m	330
6	Anti-burrow 400mm x 3.05m (bitumen dipped) underdig. Wire shall be 3.5mm, then bitumen dipped	No	108
7	Galvanised Anti-Scale device, then Polymetic 6000 Coated	No	799
8	Mass concrete (25 Mpa)	m3	12
9	Excavation not exceeding 2m deep for underdig	m3	79
10	Hard Rock	m3	RATE ONLY
Carried Forward			R
Section No. 6 External Works Bill No. 1 Fencing			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

				R
	Brought Forward			
11	Type 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	9	
	<u>TURNSTILES ETC</u>			
12	Turnstar - Titan 3 or similar approved Pedestrian Turnstiles with overall dimensions of 1430mm Wide x 2250mm high. Finished with Polyester exterior grade power coat, colour charcoal blue, colour to be approved by Architect prior to order all according to manufacturer specifications.	No	2	
	<u>SECURITY GATE ETC</u>			
13	Turnstar - Full height Security Gate or similar approved with overall dimensions of 970mm Wide x 2250mm high formed of 40 x 4mm flat square hollow section framing with one 40 x 4mm flat square hollow section intermediate rail spaced 1060mm in the centre of the gate and the top and bottom part both with nine 10 x 10mm square section vertical intermediate rails at 110mm centres; the gate filled with 100 x 130 x 30mm lock box of 2mm plate for and including approved mortice lock with chromium plate furniture and 153mm long "Quadrisection Profile B14" striking plate slot-holed for latch and bolt. Finished with Polyester exterior grade power coat, colour charcoal blue, colour to be approved by Architect prior to order all according to manufacturer specifications.	No	2	
	<u>BIOMETRIC AND CARD ACCESS CONTROL</u>			
14	Provide the sum of Thirty Four Thousand Two Hundred for supply and installation of Biometric and card access control as well as the required posts executed complete by an approved sub-contractor		Item	68,400.00
15	Add for profit			%
16	Add for general attendance			%
	Carried to Final Summary			R
	Section No. 6			
	External Works			
	Bill No. 1			
	Fencing			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 1</u>			
	<u>SUPPLY AND INSTALLATION OF WATER RETICULATION INCLUDING BOREHOLE (PROVISIONAL)</u>			
	<u>SABS 1200 DB : EARTHWORKS (Pipe Trenches)</u>			
	<u>EXCAVATE</u>			
	Excavate with machine in all materials for trenches, backfill, compact and dispose of surplus material for depth :			
1	Exceeding 0.5m and not exceeding 1.0m deep	m	2,800	
	<u>SABS 1200 L : MEDIUM PRESSURE PIPELINES</u>			
	<u>Supply, handle, lay and bed pipes complete with couplings, test and disinfect</u>			
	<u>HDPE Pipe</u>			
2	a) 25mm x 6	m	200	
	<u>HDPE Pipe Class 10</u>			
3	a) 40mm dia	m	200	
4	a) 63mm dia	m	800	
5	a) 75mm dia	m	1,200	
	<u>Couplings HDPE</u>			
6	a) 75mm	No	24	
	Carried Forward		R	
	Section No. 7 External Water & Fire Reticulation System Bill No. 1 Water Reticulation (Provisional)			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
	<u>T-Pieces HDPE</u>		
7	a) 40mm	No	16
8	b) 50 x 50mm	No	7
9	c) 63 x 25mm	No	15
10	d) 75 x 63mm	No	19
11	e) 75 x 75mm	No	2
	<u>90 Deg Female Elbows HDPE</u>		
12	b) 75 x 40mm	No	4
13	c) 75 x 63mm	No	4
	<u>90 Deg elbows HDPE</u>		
14	c) 75 x 75mm	No	4
	<u>Male Elbows HDPE</u>		
15	a) 40mm	No	2
	<u>Flanged Elbows HDPE</u>		
16	b) 63mm Straight	No	8
	<u>Flanged Straight HDPE</u>		
17	a) 110 x 75mm	No	1
	<u>Bush Male Plain</u>		
18	a) 40 x 40mm	No	16
	<u>4 Way Cross</u>		
19	a) 40mm	No	4
Carried Forward			R
Section No. 7 External Water & Fire Reticulation System Bill No. 1 Water Reticulation (Provisional)			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
<u>Reducers (HDPE)</u>				
20	a) 25 - TBC	No	15	
21	b) 63 - TBC	No	26	
<u>Male Adapters for HDPE</u>				
22	a) 40mm	No	34	
23	b) 63mm	No	4	
24	c) 90mm	No	16	
<u>Valves</u>				
25	a) 25mm	No	16	
26	b) 40mm	No	14	
27	d) 63mm	No	7	
28	e) 75mm	No	6	
<u>25 MPa/19mm Unreinforced Concrete</u>				
29	a) Anchor/thrust blocks and pedestals	m3	60	
<u>Water network connection</u>				
30	a) Connection to existing water reticulation	L/Sum	1	
<u>Inspection chambers including foundations slabs, brickwork, cover slab & cast-iron manhole covers</u>				
31	a) 380 x 380mm	No	18	
<u>Tank Stands</u>				
32	a) 4m High tank stands	No	12	
<u>Palisade</u>				
33	a) 1.8 Panels	No	21	
Carried Forward				R
Section No. 7 External Water & Fire Reticulation System Bill No. 1 Water Reticulation (Provisional)				

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
	<u>Posts</u>		
34	a) 2.4m	No	22
35	b) Gates	No	2
	<u>Pump Houses including foundations, brickwork, roof structure & steel doors.</u>		
36	a) 1200 x 1200 x 1500mm High Pump house	No	2
	<u>Booster Pumps</u>		
37	b) 2.2Kw Booster Pump	No	1
38	c) 4kw Booster Pump	No	1
	<u>SABS 1200 LB : BEDDING (Pipes)</u>		
39	a) Prepare bedding 100mm thick	m	3,000
40	b) Place blanket 200 mm thick over pipe from excavated material	m	3,000
	<u>GEO-HYDROLOGIST</u>		
41	Pre feasibility study	No	2
42	Geophysical investigation full day	No	2
43	Magnometer system (envi-wiakmag and gem-dsm 19w	No	2
44	Electromagnetic system	No	2
45	Travel distance	No	1
	<u>YIELD TESTS</u>		
46	24 Hour yield test transport	No	1
47	4 x 1HR Steps	No	2
48	24hr Constant yield test and recovery	No	2
49	Water Analysed	No	2
	Carried Forward		R
	Section No. 7 External Water & Fire Reticulation System Bill No. 1 Water Reticulation (Provisional)		

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

		Brought Forward		R
<u>REPORTING</u>				
50	Reporting	No	2	
51	Data Capturing and map preparation	No	2	
52	Data capture - data clerk	No	2	
53	Data interpretation	No	2	
<u>SITE ESTABLISHMENT DRILLING</u>				
54	Site establishment	No	1	
55	Drilling 165MM	No	240	
56	Casing 177 x 3MM	No	36	
57	Development	No	2	
58	Capping	No	2	
<u>BOREHOLE INSTALLATION</u>				
59	Pump, motor, control box, piping, fittings, manhole, cover, sub cable, armoured cable x 50m, waterproof box	No	2	
Carried Forward to Summary of Section No. 7				R
Section No. 7				
External Water & Fire Reticulation System				
Bill No. 1				
Water Reticulation (Provisional)				

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No		Quantity	Rate	Amount
	<u>SECTION NO. 7</u>			
	<u>BILL NO. 2</u>			
	<u>SUPPLY AND INSTALLATION OF FIRE RETICULATION (PROVISIONAL)</u>			
	<u>SABS 1200 DB : EARTHWORKS (Pipe Trenches)</u>			
	<u>EXCAVATE</u>			
	Excavate with machine in all materials for trenches, backfill, compact and dispose of surplus material for depth :			
1	Exceeding 0.5m and not exceeding 1.0m deep	m	500	
	<u>SABS 1200 L : MEDIUM PRESSURE PIPELINES</u>			
	<u>Supply, handle, lay and bed pipes complete with couplings, test and disinfect</u>			
	<u>HDPE Pipe Class 10</u>			
2	a) 110mm dia	m	1,800	
	<u>Couplings HDPE</u>			
3	a) 110mm	No	36	
	<u>T-Pieces HDPE</u>			
4	e) 110mm	No	47	
	<u>90 Deg elbows HDPE</u>			
5	c) 100mm	No	5	
	Carried Forward			R
	Section No. 7 External Water & Fire Reticulation System Bill No. 2 Fire Reticulation (Provisional)			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward				R
	<u>Flanged Elbows HDPE</u>			
6	b) 110mm	No	4	
	<u>Reducers (HDPE)</u>			
7	d) 100 x 25mm	No	47	
	<u>Male Adapters for HDPE</u>			
8	d) 110mm	No	6	
	<u>Valves</u>			
9	f) 110mm	No	11	
	<u>Extra on pipes for galvanised mild steel fittings</u>			
10	25mm 90 Deg Elbows	No	47	
	<u>Taps, valves fire hydrants, etc</u>			
11	100x65mm Brass Pretoria type tamperproof right angle hydrant valve with bayonette outlet, complete with cap	No	13	
	<u>Fire hydrant pedestals</u>			
12	Mass concrete hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300x300mm square at base and tapering to octagonal shaped top 200x200mm overall including necessary excavations, formwork and two coats of paint to exposed surfaces	No	1	
	<u>25 Mpa/19mm Unreinforced Concrete</u>			
13	a) Anchor/thrust blocks and pedestals	m3	1	
	<u>Fire network connection</u>			
14	a) Connection to existing fire reticulation	L/Sum	1	
	Carried Forward			R
	Section No. 7 External Water & Fire Reticulation System Bill No. 2 Fire Reticulation (Provisional)			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Brought Forward			R
<u>Inspection chambers including foundations slabs, brickwork, cover slab & cast-iron manhole covers</u>			
15	a) 380 x 380mm	No	20
<u>Tank Stands</u>			
16	a) 6m High (200 thousand litre) includes foundation and pipework	No	1
<u>Palisade</u>			
17	a) 1.8 Panels	No	14
<u>Posts</u>			
18	a) 2.4m	No	15
19	b) Gate	No	1
<u>Pump Houses including foundations, brickwork, roof structure & steel doors.</u>			
20	a) 4000 x 5000 x 1500mm High Pump house	No	1
<u>SABS 1200 LB : BEDDING (Pipes)</u>			
21	b) Place blanket 200 mm thick over pipe from excavated material	m	1,500
<u>FIRE APPLIANCES ETC</u>			
<u>"Chubb" or similar approved</u>			
22	"Everyway" hose reel complete with 30m plastic hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	34
23	9kg Dry chemical fire extinguisher	No	68
Carried Forward			R
Section No. 7 External Water & Fire Reticulation System Bill No. 2 Fire Reticulation (Provisional)			

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

	Brought Forward			R
	<u>Testing</u>			
24	Allow for testing the whole of the water and fire water supply reticulation system and for retesting after removing and replacing all defective work to the entire satisfaction of the principal agent. The contractor has to provide all necessary testing apparatus and labour and has to follow the principal agent's instructions implicitly	Item		
	<u>FIRE PUMP</u>			
25	Electric driven jockey pump to suit. Electric driven centrifugal pump complete. Diesel driven emergency centrifugal pump complete. Suction and delivery manifolds to suit 150mm galvanised or painted post red box. Isolating and NRV"s to suit. compensators to suit. Jockey pump automatic control panel 380v 3ph. Main electric automatic control panel 380v 3ph with necessary alarms. Pressure switch x 3off. o - 1000kpa glycerine pressure gauge. Fabricated base frame to suit. nuts,	No	1	
	Carried Forward to Summary of Section No. 7			R
	Section No. 7 External Water & Fire Reticulation System Bill No. 2 Fire Reticulation (Provisional)			

BILLS OF QUANTITIES
 EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
 ETVETC/MAPUL/HS/2024/01
 REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

Item No	Quantity	Rate	Amount
<u>SECTION NO. 7</u>			
<u>BILL NO. 3</u>			
<u>PROVISIONAL SUMS</u>			
<u>Electrical Works</u>			
<u>Cabling</u>			
1			
Allow the budgetary amount of R100,000.00 (One Hundred Thousand Rand) NET for Electrical cabling works.		Item	100,000.00
Carried Forward to Summary of Section No. 7			
Section No. 7 External Water & Fire Reticulation System Bill No. 3 Budgetary Allowances			R

BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

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BILLS OF QUANTITIES
EHLANZENI TVET COLLEGE - MAPULANENG CAMPUS
ETVETC/MAPUL/HS/2024/01
REFURBISHMENT TO HOSTEL BLOCKS, WATER & FIRE RETICULATION

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	TOTAL OF BUILDERS WORK		R
	Allow 10% for contingencies to be used at the sole discretion of the principal agent		R
	Sub Total		R
	Vat @ 15%		R
	TOTAL CONTRACT VALUE		R
	Carried to Form of Tender		R

EHLANZENI TVET COLLEGE

COVID-19 HEALTH AND SAFETY SPECIFICATIONS

FOR

**REFURBISHMENT OF HOSTEL BLOCKS, WATER AND FIRE
RETICULATION SYSTEM FOR EHLANZENI TVET COLLEGE**

AT

MAPULANENG CAMPUS

**PROJECT MANAGERS, ARCHITECTS,
QUANTITY SURVEYORS, ENGINEERS**

PASQA AFRICA PROFESSIONAL CONSULTANTS



ANNEXURE A

COVID-19 Health and Safety Specifications

DOCUMENT TILE
HEALTH AND SAFETY SPECIFICATIONS
COVID-19
DECEMBER 2021

PROJECT NAME:	
CLIENT:	
PRINCIPAL AGENT:	
PRINCIPAL CONTRACTOR:	
CONSTRUCTION WORK PERMIT NUMBER	

TABLE OF CONTENTS

DEFINITIONS

1. INTRODUCTION

2. LEGISLATION GOVERNING COVID-19

- Occupational Health and Safety Act No: 85 of 1993 read with Hazardous Biological Agents Regulations
- Occupational Health and Safety Measures in Workplace, gazette No 43257 Department of Employment and Labour Risk Adjusted Strategy for Economic Activity

3. COVID-19 WORKPLACE PREPAREDNESS

4. CONCLUSION

DEFINITIONS

“COVID-19” means Coronavirus Disease 2019;

“Disaster Management Act” means the Disaster Management Act, 2002 (Act No. 57 of 2002);

“OHS Act” means the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993);

“PPE” means personal protective equipment;

“Virus” means the SARS-CoV-2 virus;

“Worker” means any person who works in an employer’s workplace including an employee of the employer or contractor, a self-employed person or volunteer;

“Workplace” means any premises or place where a person performs work.

“COID Act” means the Compensation for Occupational Injuries and Diseases Act, No 130 of 1993

“Occupationally-acquired COVID-19” means a disease contracted by an employee as defined in the COID Act arising out and in the course of his or her employment.

1. Introduction

The implementation and monitoring of control measures related to the COVID-19 Virus in the workplace post the countrywide lock down. This document identifies the Health and Specifications that are required of the Principal Contractor (employees, sub-contractors and all service providers) engaged in activities associated with the project

2. Objectives

The objective of the COVID-19 return to Work Health and Safety Specification is to ensure that the Principal Contractor, is prepared to manage COVID-19 with the following priority of objectives:

- To protect the personnel on the project site under his/her control from the risk of infection
- The Health and Safety welfare of all personnel on site
- To ensure that all control and preventative measures of the Hazardous Biological Agent (SARS CoV 2 and COVID-19) are followed.

2.1 Aims

To continue to eliminate and prevent all employees from contracting the COVID-19 virus whilst carrying out their duties and tasks at work.

The OHS Act read in conjunction with the Hazardous Biological Agents Regulations requires the employer to provide and maintain as far as is reasonably practicable a working environment that is safe and without risks to the health of employees. All safe work procedures must be governed by the Act and the various Regulations.

3. Work Preparedness

3.1 Responsibility and Authority

The management team is responsible to the CEO in setting standards and associated objectives, targets in line as referenced by Section 16 of the OHS Act.

Managers, Supervisors and their Occupational Health Safety Representative(s) must monitor compliance for their respective departments and ensure achievement of the objectives in their respective departments in line with and referenced under Section 8 of the OHS Act.

3.2 Site Protocol

The Principal Contractor must ask all employees if any member of their staff is at risk of being sick or carrying illness.

The Principal Contractor must ask these questions:

- Have you, or anyone in your family, been in contact with a person that has tested positive for COVID-19?
 - Have you, or anyone in your family, been in contact with a person that is in the process of being tested for COVID-19?
 - Have you, or anyone in your immediate family, travelled outside of the RSA?
 - Are you having trouble in breathing, dry cough or flu-like symptoms?
- Per recommendations, if any answer is “yes”, the worker must be removed from the jobsite immediately and must not be allowed to return to the jobsite without a doctor’s letter verifying “OK to return to work” status.
- Safety recommends that employees who appear to have acute respiratory illness symptoms (i.e. cough, shortness of breath) upon arrival to work or become sick during the day must be separated from other employees and be sent home immediately. The Principal Contractor must send any worker home if there are any observed symptoms of sickness.
- The Principal Contractors are instructed to prevent stigma and discrimination in the workplace. Do not make determinations of risk based on race or country of origin.
- Stop all non-essential visitors
- Always introduce staggered start and finish times to reduce congestion and contact
- Monitor site access points to enable social distancing – you may need to change the number of access points, either increase to reduce congestion or decrease to enable monitoring
- Require all workers to wash or clean their hands before entering or leaving the site
- Allow plenty of space (two metres) between people waiting to enter site
- Regularly clean common contact surfaces of tools and Equipment, access control and deliveries.
- Reduce the number of people in attendance at site inductions and consider holding them outdoors wherever possible
- Drivers must remain in their vehicles if the load will allow it and must wash or clean their hands before unloading goods and materials.
- No large group meetings: limit all meetings to six people or less. The Toolbox safety and DSTI schedule meetings, etc. are to be held with only Supervisor and with personal distance between individuals. (2 Meter)
- All meetings – Toolbox safety, DSTI schedule, etc. to emphasize personal hygiene and the recommendations to prevent illness.
- No visitors are permitted to enter Principal Contractor’s workplace, including jobsites, unless fundamental to the execution of the work.

3.3 COVID-19 Measures:

- Employees who are well but who have a sick family member at home and / or have been in close contact with a person with COVID-19 must stay home and notify their supervisor and refer to guidance for how to conduct a risk assessment of their potential exposure.
- If an employee is confirmed to have COVID-19, the Principal Contractor must inform fellow employees of their possible exposure to COVID-19 in the workplace while maintaining confidentiality. All staff must be sent home and the COVID -19 emergency numbers to be phoned. Employees exposed to a co-worker with confirmed COVID-19 must refer to guidance for how to conduct a risk assessment of their potential.
- The Principal Contractor must monitor and respond to absenteeism at the workplace. The Principal Contractor implement plans to continue essential business functions if they experience higher than usual absenteeism.
- The Principal Contractor must cross-train personnel to perform essential functions so that the workplace is able to operate if key staff members are absent.

3.4 Travel Protocol:

The Principal Contractor must advise employees before considering travel to take certain steps:

- Wherever possible workers must travel to site alone using their own transport and sites need to consider:
 - Parking arrangements for additional cars and bicycles
 - Other means of transport to avoid public transport e.g. cycling
 - Providing hand cleaning facilities at entrances and exits. This must be soap and water wherever possible or hand sanitizer if water is not available
- Employees who become sick while travelling or on temporary assignment must notify their supervisor and must promptly call a healthcare provider for advice.
- **The Principal Contractor must enforce a mandatory 14-day self-quarantine upon returning from travel outside South Africa and potentially domestic locations to be determined.**
- Inform supervisor prior to scheduling any travel.

3.5 Hand Washing:

The Principal Contractor must:

- Provide additional hand washing facilities to the usual welfare facilities if a large spread out site or significant numbers of personnel on site
- Ensure soap and fresh water is readily available and kept topped up at all times
- Provide hand sanitizer where hand washing facilities are unavailable
- Regularly clean the hand washing facilities and check soap and sanitizer levels
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal. Sites will need extra supplies of soap, hand sanitizer and paper towels and these must be securely stored.

3.6 Toilet Facilities

The Principal Contractor must:

- Restrict the number of people using toilet facilities at any one time e.g. use a welfare attendant
- Ensure that all employees wash hands before and after using the facilities.
- Enhance the cleaning regimes for toilet facilities particularly door handles, locks and the toilet flush.
- Avoid the use of portable toilets wherever possible, but where in use these must be cleaned and emptied more frequently.
- Provide suitable and sufficient rubbish bins for hand towels with regular removal and disposal.

3.7 Eating Arrangements

The Principal Contractor must ensure that:

- Dedicated eating areas is identified on site to reduce food waste and contamination
- Break times are staggered to reduce congestion and contact at all times
- Hand cleaning facilities or hand sanitizer are available where people eat and are used by workers when entering and leaving the area
- The workforce must be asked to bring pre-prepared meals and refillable drinking bottles from home
- Workers must seat 2 meters apart from each other whilst eating and avoid all contact
- Drinking water must be provided with enhanced cleaning measures of the tap mechanism introduced
- All rubbish must be put straight in the bin and not left for someone else to clear up
- All areas used for eating are thoroughly cleaned at the end of each break and shift.

3.8 Cleaning

The Principal Contractor must ensure that enhanced cleaning procedures are in place across the site, particularly in communal areas and at touch points including:

- Taps and washing facilities,
- Toilet flush and seats
- Door handles and push plate
- Machinery and equipment controls
- Telephone equipment (Cell Phones)

3.9 Training

The Principal Contractor must ensure that a training matrix is composed and completed for all management and staff, aimed specifically at the control and prevention of the COVID-19 Virus.

Subject matter must include but are not limited to:

- Symptoms
- Training
- Monitoring
- Social distancing

- PPE usage

The Principal Contractor must also ensure that all management and staff undertake the specific training prior to the re-commencement of work activities. Proof of training must be maintained by way of registers

3.10 Security

Security staff must be instructed not to allow entry to anyone who does not comply with all the requirements listed below – should a driver and / or helper be found to exceed the guidelines on body temperature, they too must be denied access individually.

Suppliers must ensure that they provide and issue the required PPE to all personnel:

- Drivers and helpers must wear masks
- Drivers and helpers must wear protective gloves
- Drivers and helpers to wear hair coverings
- Drivers and helpers are required to wash their hands thoroughly on entry to the premises
- Drivers and helpers must be screened for body temperature on entry at the gate.

All employees must be screened for body temperature on entering the site by security personnel.

All employees are required to wash their hands on entering the site – alternatively – spray your hands with a sanitizer.

3.11 PPE

While engineering and administrative controls are considered effective in minimizing exposure to COVID-19, PPE is the primary medium to prevent exposures. Remember that the virus is passed on through person-to-person contact.

No persons are allowed to enter the premises without the wearing of appropriate and published PPE requirements.

Examples of PPE include gloves, goggles, face shields, face masks, gowns, aprons, coats, overalls, hair and shoe covers and respiratory protection, when appropriate.

- Masks

Masks are compulsory for all employees; personnel and professional team members, reducing the potential of inhaled COVID-19 droplets. For general administration purposes, for essential staff on site only, cloth masks may be worn. N95 masks are only to be worn by first aiders or high-risk workers, due to the national shortage thereof.

All employees to have access to N95 or FFPT2 masks when required, only in instances of HIGH RISK OF EXPOSURE

All N95 and FFPT2 masks to be disposed with or after 1 day's use. Induction must also include training on the correct use of face masks.

Cloth face masks must be used on entering and leaving the site. It is advised that each worker is supplied with at least 3 cloth face masks. This would assist ensuring that the masks are hygienic (1 on the face; 1 in the wash and 1 as a backup).

The Principal Contractor must ensure that sufficient stock is at all-time available on site. This will also have depended on the type of mask being issued.

All disposable masks are biological waste and must be properly disposed of. This must be disposed in container (locked) or in bags to be either removed as medical biological waste by registered service provider.

CLEARLY IDENTIFIABLE BINS INDICATING BIOLOGICAL WASTE MUST BE PROVIDED

- Face Shields

The principal contractor could also look at options such as full face shields for preventing spreading of virus through eyes. This would assist the employee who is doing hard physical work to breathe more easily but still protecting the mouth, eyes and nose.

Face shields must be cleaned daily before the shift and at the end of the shift. Proper cleaning agents/disinfectant must be used. Face shields must be issued to employees and no sharing is allowed.

- Overalls

All employees must be issued with 3 overalls (1 overall wearing; 1 overall in the wash and one as the backup). This will ensure that the employee will be able to wear clean hygienic overalls. This must form part of the COVID-19 training for all employees.

- Hand Gloves

It is preferable that surgical gloves are not worn unless indicated and workers trained in the proper use thereof. Gloves must only be used when the activity demand the wearing of specific type of hand gloves. This must be directed by the Principal Contractor's risk assessment.

Site office personnel must be made aware of the risks in the office environment, this includes the handling of documents and plans. These employees must be issued with the appropriate hand gloves or sufficient hand wash / sanitizing facilities must be available in the site office.

3.12 Auditing

Auditing of this guidance as well as specific health and safety requirements under the OHS Act will be undertaken on a weekly basis.

- Non-Compliance by individuals will result in immediate suspension from work activities.
- Verbal and written warnings will be issued, and could result in permanent loss of employment

3.13 Communication

It is of utmost important that daily toolbox talks are conducted, in order to keep staff abreast of any issues, developments and changes implemented by Government, the Company and local communities.

Notices must be posted in prominent locations should any changes and recommendations be implemented coming out of any safety meetings

a. Access rules

The Principal Contractor must install additional signage with site rules specific to the prevention of spreading the COVID-19 virus at the access control points of the site.

b. Notices/Posters with protocols

Notices and posters must be placed and installed to raise awareness and regarding protocols to be followed on site. These notices and posters must be placed conspicuously at various points on the site including the following places:

- Entrance
- Site notice board
- Site Office
- Eating areas
- Next to toilets and bathrooms
- Hand washing stations
- Storerooms

Signage must be posted in and around the work areas as well as in ablutions and change rooms as per the samples below:



3.14 Risk Assessment

The Principal Contractor must ensure that they review and update risk assessments on a regular basis. The object of conducting or updating a risk assessment in respect of COVID-19 is to provide specific focus on COVID-19 specific working environments.

	Baseline Risk Assessment	BRA 01
	Prevention of Contacting Corona Virus – COVID 19	
	Safety, Health and Environment	Version 1

Risk Evaluation Table				Persons at Risk	Risk Factors		
Likelihood of Harm Occurring	2 Remote	4 Possible	6 Probable				
Severity of Injury or Harm	6 Fatal / Major Injury	M	M	H	E – Employees C – Contractors O – Others i.e. Members of the Public / Clients employees	25 → 36	High Risk. Intolerable, eliminate, Safety Method Statements to reduce risk to a tolerable level.
	4 Reportable Injury	L	M	M		12 → 24	Medium Risk. Tolerable only with the full implementation of all of the control measures identified below
	2 First Aid or Minor Injury	L	L	M		1 → 11	Low Risk. Reduce risk further where cost and time allows. Maintain all basic disciplines and controls.
		Likelihood	Severity	Risk Factor	Notes/Comment on Evaluation		
Potential Health Risk		6	6	36	Extremely High Risk – could lead to death		
Potential Ergonomic Risk		2	2	4	Ensure sufficient spacing and avoid close contact between employees		
Environmental Risk		2	2	4	Waste Disposal of used tissues/masks/gloves		

3.15 Demographics of Labour

The Principal Contractor must compile a demographic record of all their staff.

- Age of staff / labour, a procedure to take cognizance of the worker / staff in high risk categories e.g. 60+ and those with underlying medical risks
- Health Status, a record of the persons health conditions specifically those that have been identified as causing complications when infected with COVID-19 Virus
- Socio economic status of the workforce, this may have an impact of the transmission of the COVID-19 virus either from site to the home environment or from home to the workplace.

3.16 Hand and Powered Tools

The Principal Contractor must provide for and ensure the sanitization of all tools on site.

- No sharing of tools, unless they are sanitized between users
- All tools returned to stores are to be sanitized before storage.
- All tools are to be sanitized before being placed in tool bags / boxes
- All tools issued are to be sanitized in front of the recipient prior to issuing.
- All sub-contractors' tools are to be sanitized when accessing / egressing site and prior to the tools being used / stored.

3.17 Plant

The Principal Contractor must provide for and ensure that all plant on site and all plant and transport accessing the site has been sanitized.

- No unauthorized passengers permitted on mobile plant.
- All touch surfaces to be cleaned frequently during the day with disinfectants.
- Before changing operators / drivers the cab must be cleaned with disinfectant solution.
- Records of operator / driver changes to be kept with register of sanitization.
- All touch surfaces to be sanitized at the end of shift

3.18 Procurement and Storage for COVID-19 PPE and General Supplies

- Availability of personal protective equipment PPE is an imperative and should be available at all times. Where this is not so, the work related to the activity will be stopped until adequate supplies are available.
- Storage of PPE is to be tightly controlled, with records of issue. Damaged PPE is to be managed in the usual way but all to be disposed of as if contaminated.

3.19 Waste Management for COVID-19 Waste

Waste management arrangements must be updated to include provision for the disposal of additional waste generated due to preventative measures implemented. All waste must be managed as hazardous waste.

- Disposal of any gloves, masks

The Principal Contractor must dispose of all used gloves and masks as hazardous waste and provide sealable bags and containers for the safe disposal of this waste.

- Paper towels

The Principal Contractor must provide adequate supplies of paper towels on site. At points where these towels are provided lined waste bins to be placed in order to collect all used towels and then to be disposed of in hazardous waste.

- Disinfectant solution

The Principal Contractor must provide adequate supplies of disinfectant on site where the use of water and soap for cleaning is not practical. If disinfectant dispensers are not refilled it must be disposed with other hazardous waste.

- Wastewater

Wastewater at washing points, toilets, and bathrooms must be contained in a drainage system that prevent surface spills. If wastewater is contained in waste buckets it must be sealed when removed and disinfected after it is cleaned.

3.20 Emergency Planning

An updated emergency plan must be completed that is in line with the current Regulations of the National Disaster Management Act.

- First aid Extra gloves, and disinfectants must be available, first aiders are to be issued with at least FFPT2 masks should they be required to respond
- Evacuation plans Evacuation plans must consider social distancing.
- Isolation of potentially infected workers

The emergency plan must consider how anyone who arrives on site and displays any of the symptoms, or has a raised temperature.

3.21 Social Distancing at work

The lockdown restrictions may be eased down but that does not mean that there is no need for social/physical distancing anymore.

You spend 8-9 hours at work and must maintain a proper distance from everyone during this time, whether they are symptomatic or asymptomatic. There are no exceptions to this rule.

Appropriate social distancing must be implemented and a 2 meters distance to be maintained. Where this is not possible due to the nature of the task additional PPE to prevent or reduce the risk of transmission must be issued and the use of the additional measures must be enforced.

These measures must include but not limited to:

- Training and education on how to reduce the transmission of COVID-19
- Provision of adequate supplies of PPE
- Monitoring and managing the use of PPE
- Training on the care and washing requirements
- Sanitizing and washing facilities for workers to provide in the immediate vicinity of where the task has been completed
- Facilities to be provided for the sanitization of PPE where PPE is used by multiple uses

3.22 Offices, Common areas and Facilities

The Principal Contractor must compile and implement a program for the systematic sanitization of all offices and common areas.

- Common areas must to be sanitized before and after use
- Offices must be sanitized daily.
- Shared offices where the required level of social distancing cannot me maintained, the occupancy numbers must be reduced and the remaining occupants must wear the prescribed PPE at all times.
- Door handles and other touch areas must be sanitized after each use.
- No sharing of office equipment e.g. computers
- No sharing of cell phones or other communication devices
- No preparation of meals permitted on site

3.23 Notice on Compensation for Occupationally-Acquired Novel Corona Virus Disease (COVID-19)

This notice deals with occupationally-acquired COVID-19 resulting from single or multiple exposures to confirmed cases(s) of COVID-19 in the workplace or after an official trip to high-risk countries or areas in a previously COVID-19 free individual.

The Principal Contractor can claim for occupationally-acquired COVID-19 shall be set out as contemplated in and provided for sections 65 and 66 of the COID Act.

The Office of the Compensation Commissioner shall consider and adjudicate upon the liability of all claims. The Medical Officers in the Compensation Commissioners' Office are responsible for medical assessment of the claim and for the confirmation of the acceptance or rejection of the claim.

The following documentation must be submitted to the Compensation Commissioner

- Employer Report of an Occupational Disease (W.CL.1)
- Notice of an Occupational Disease & Claim for Compensation (W.CL.14)
- Exposure and Medical Questionnaire
- First Medical Report in respect of an Occupational Disease (W.CL.22)
- Exposure history (W.CL.110) and/or any other employment history
- A medical report from Doctor and / or Specialist

4. Conclusion

4.1 General Protocol:

The Principal Contractor must actively encourage sick employees to stay home:

- a. If employees or subcontractor employees are exhibiting any of the following symptoms or behaviour associated with these symptoms, they must be asked to leave the jobsite and/or office and call (or go to) the doctor:
 - i. Fever
 - ii. Cough
 - iii. Shortness of breath
- b. Employees who have symptoms of acute respiratory illness are required to stay home and not come to work until they are free of fever (100.4° F [37.8° C] or greater using an oral thermometer), signs of a fever, and any other symptoms for at least 48 hours, without the use of fever-reducing or other symptom-altering medicines (e.g. Tylenol, cough suppressants). Employees must immediately notify their supervisor and stay home if they are sick.
- c. The Principal Contractor must communicate with their subcontractors and temporary staffing companies about the importance of sick employees staying home and/or going to the doctor.
- d. Per Safety recommendations, employees who appear to have acute respiratory illness symptoms (i.e. cough, shortness of breath) upon arrival to work or become sick during the day must be separated from other employees and be sent home immediately. Register must be in place for traceability of when and where employ may be in contact been with employees, public or other Contractors.
- e. The Principal Contractor must communicate the following to its employees and sub-contractors:

- i. Serious respiratory illnesses like influenza, respiratory syncytial virus (RSV), whooping cough, and severe acute respiratory syndrome (SARS) and COVID-19 are spread by:
 - 1. Coughing or sneezing
 - 2. Unclean hands: Touching your face after touching contaminated objects and touching objects after contaminating your hands
- ii. To help stop the spread of germs:
 - 1. Cover your mouth and nose with a tissue when you cough or sneeze.
 - 2. Put your used tissue in a waste basket.
 - 3. If you don't have a tissue, cough or sneeze into your upper sleeve, not your hands.
 - 4. Remember to wash your hands or sanitize after coughing or sneezing
 - 5. Avoid unnecessary contact with others
- iii. Use disposal paper tissue and no-touch disposal trash receptacles.
- iv. Clean hands often with an alcohol-based hand sanitizer that contains at least 70% alcohol, or wash hands with soap and water for at least 20 seconds. Soap and water should be used preferentially if hands are visibly dirty.
- v. Perform routine environmental cleaning:
 - 1. Routinely clean all frequently touched surfaces in the workplace, such as workstations, countertops, and doorknobs. Use the cleaning agents that are usually used in these areas and follow the directions on the label.
 - 2. Use disposable wipes so that commonly used surfaces (for example, doorknobs, keyboards, remote controls, desks) can be wiped down by employees before each use.



a) Information on Coronavirus COVID-19

WhatsApp: Say "Hi" to 0600 123 456

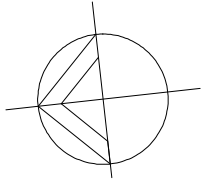
For medical enquiries: National Institute for Communicable Diseases 0800 029 999

4.2 HEALTH AND SAFETY PROTOCOLS TO BE IN PLACE- BEFORE OPENING OF SITE

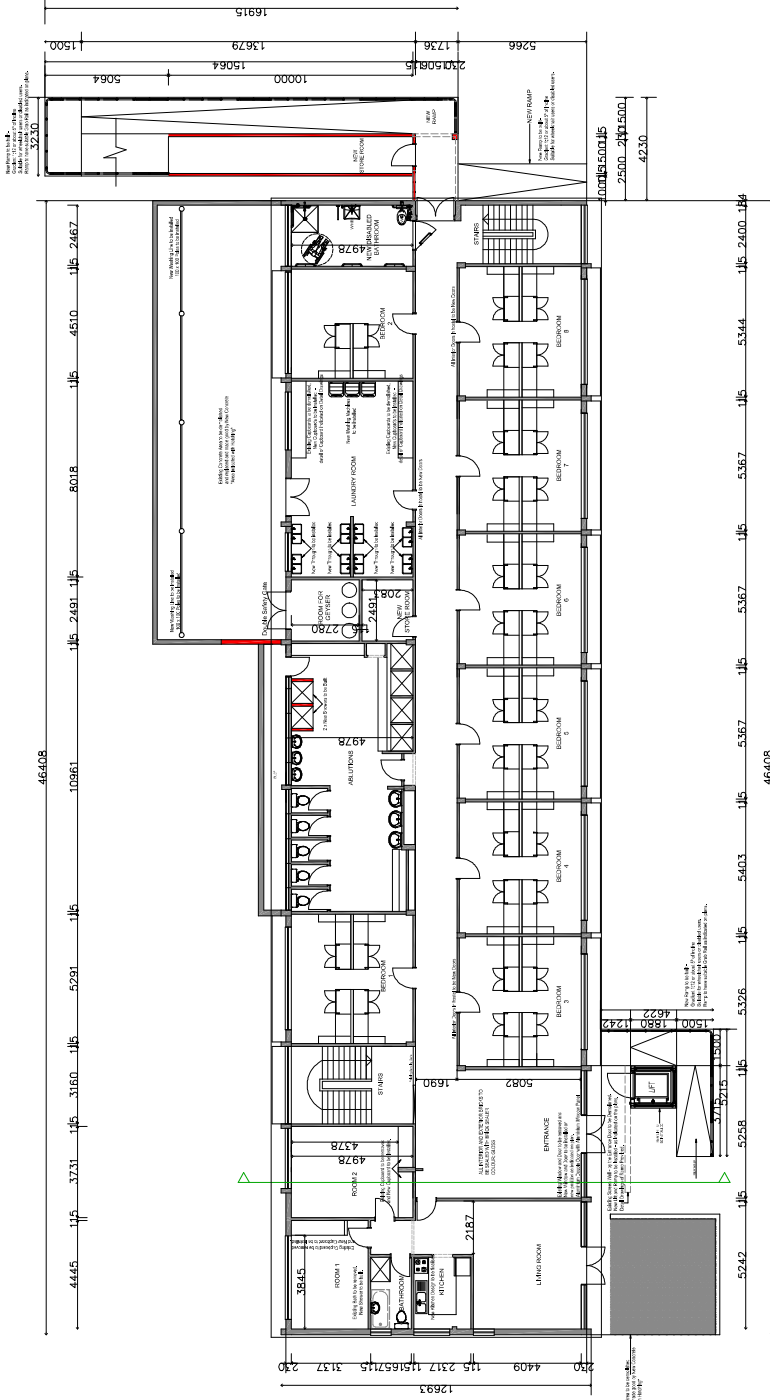
The Principal Contractor must:

1. Appoint a COVID-19 Compliance Officer
The appointed person must prepare a **COVID-19 Specific Health and Safety File** and monitor the implementation. The file must contain these minimum contents:
 - a. Emergency Contact numbers (Health and Safety Practitioner, NCID Hotline, Rob Ferreira Hospital) must be available in the file and displayed on site.
 - b. COVID-19 Policy
 - The policy must include the company's input and commitment towards psychosocial stressors (living with COVID-19, Stigma of persons who test positive and return to work exposure.
 - The policy must be reviewed and approved by the C.E.O
 - c. Biohazard Risk Assessment (must be prepared by a competent Risk assessor)
 - d. Procedures for medical screening
 - e. Medical Surveillance procedure and fitness for duty certificates
 - f. Induction training manual and communication registers
 - g. Awareness training and communication registers (e.g. COVID-19 Symptoms, Washing of hands, Hand sanitizer Use, etc.)
 - h. Procedures on how to deal with a suspected or confirmed case
 - i. COIDA Reporting procedure and forms
 - j. COVID-19 Incident Management
 - k. Visitors Contact Tracing Forms
 - l. Personal Protective Equipment Register (respiratory protection, face shields, etc.)
 - m. Facilities daily inspection checklists (hand washing soap, clean water, hand sanitizer
 - n. Copies of all regulations/government gazettes issued in terms of COVID-19
 - The above list is not exhaustive, the Principal Contractor can add the contents as and when the government issues updates

--END--



EHLANZENI TVET COLLEGE:
MAPULANENG CAMPUS - HOSTEL LAYOUT
GROUND FLOOR LAYOUT
 Ehlanzeni TVET College:
 Mapulaneng Campus - Hostel Layout
 SCALE 1:100



NOTES

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ALL SERVICES MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF ANY SERVICES ARE FOUND TO BE DEFICIENT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES. THE ARCHITECT SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

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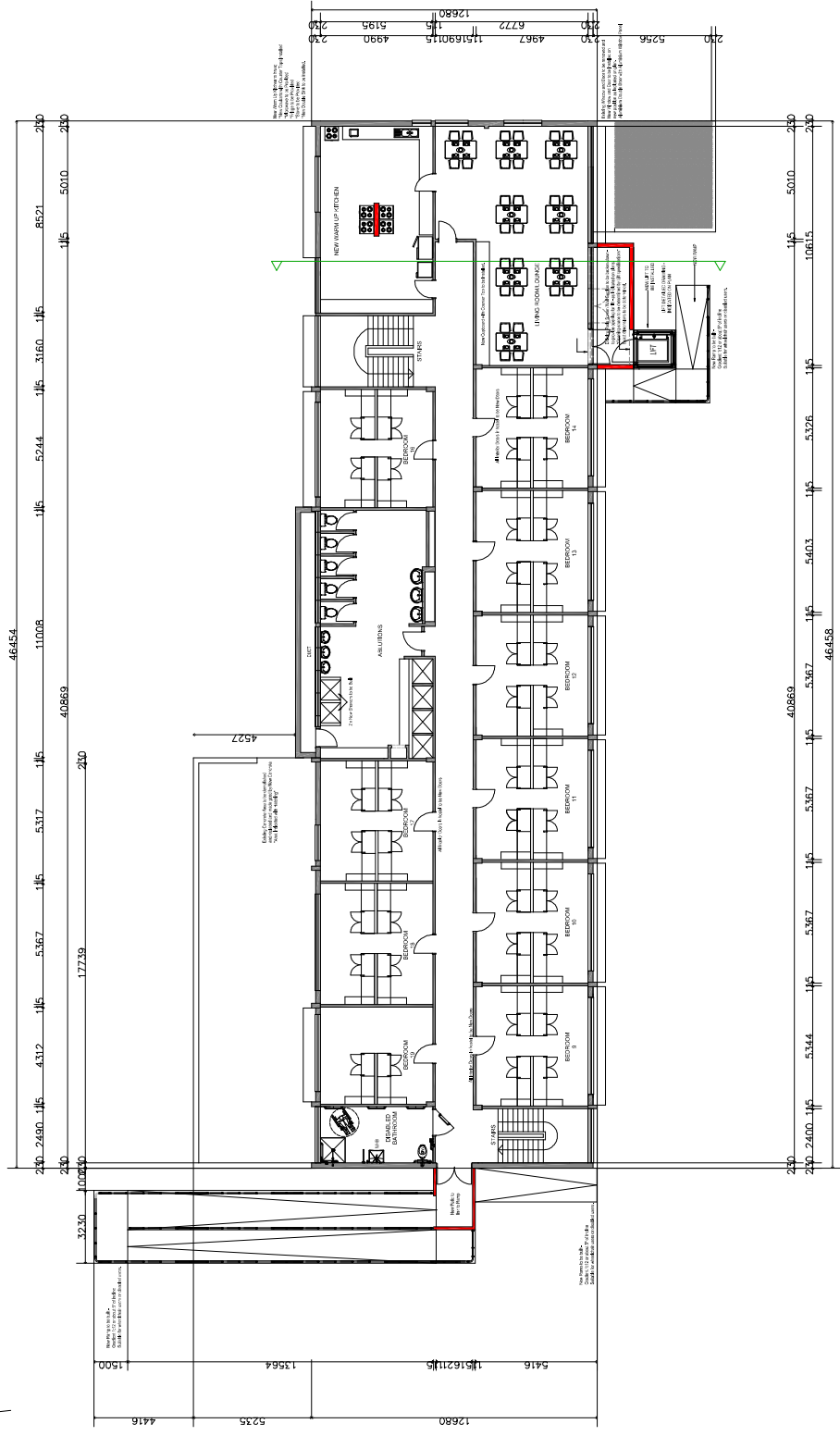
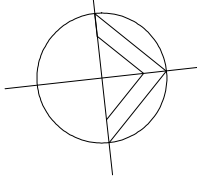
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4	ELECTRICAL
5	PLUMBING
6	PAINTING
7	LANDSCAPE
8	INTERIORS
9	EXTERIORS
10	FINISHES
11	FIXTURES
12	APPLIANCES
13	STAIRS
14	LIFTS
15	ROOFING
16	GLAZING
17	SCREENS
18	DOORS
19	WINDOWS
20	CEILING
21	FLOORING
22	WALLS
23	ROOF
24	FOUNDATION
25	RETAINING WALLS
26	DRAINAGE
27	LANDSCAPING
28	PLANTING
29	IRRIGATION
30	WATER SUPPLY
31	SEWERAGE
32	RAINWATER HARVESTING
33	WIND BREAKERS
34	SOUND BARRIERS
35	ACCESSIBLE DESIGN
36	ENVIRONMENTAL IMPACT ASSESSMENT
37	ENERGY EFFICIENCY
38	SAFETY
39	SECURITY
40	DISASTER PREPAREDNESS
41	ARCHITECTURAL RECORD
42	CONSTRUCTION RECORD
43	OPERATIONAL RECORD
44	MAINTENANCE RECORD
45	REPAIR RECORD
46	RENOVATION RECORD
47	DEMOLITION RECORD
48	ARCHITECTURAL DRAWINGS
49	STRUCTURAL DRAWINGS
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100	PAINTING DRAWINGS

CLIENT
 TVET Mapulaneng Campus -
 Renovation to Hostel Blocks

PROFESSIONAL
 FASA
 AFRICA

PROFESSIONAL CONSULTANTS

EHLANZENI TVET COLLEGE:
 MAPULANENG CAMPUS - HOSTEL LAYOUT
 FIRST FLOOR LAYOUT
 SCALE 1:100



NOTES

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ALL SERVICES MUST BE CHECKED ON SITE PRIOR TO CONSTRUCTION (ELECTRICAL, SEWER, WATER, GAS, ETC.) IF ANY SERVICES ARE A PROBLEM - PLEASE NOTIFY THE ARCHITECT IMMEDIATELY.

PROJECT DESCRIPTION

TVET Mapulaning Campus - Renovation to Hostel Blocks

DRAWING DESCRIPTION

HOSTEL BLOCK FIRST FLOOR LAYOUT

NO.	REVISION	DATE	BY	CHKD BY
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

PROFESSIONAL

PASSA AFRICA

PROFESSIONAL CONSULTANTS

NO.	REVISION	DATE	BY	CHKD BY
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE NATIONAL FIRE BRANCH REGULATIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE NATIONAL BUILDING REGULATIONS AND THE NATIONAL FIRE BRANCH REGULATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

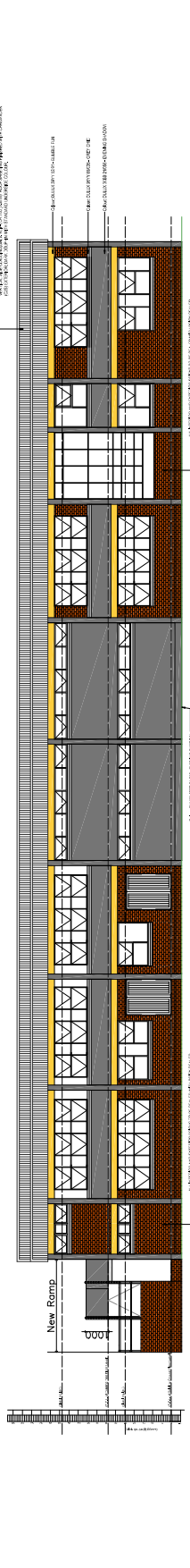
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

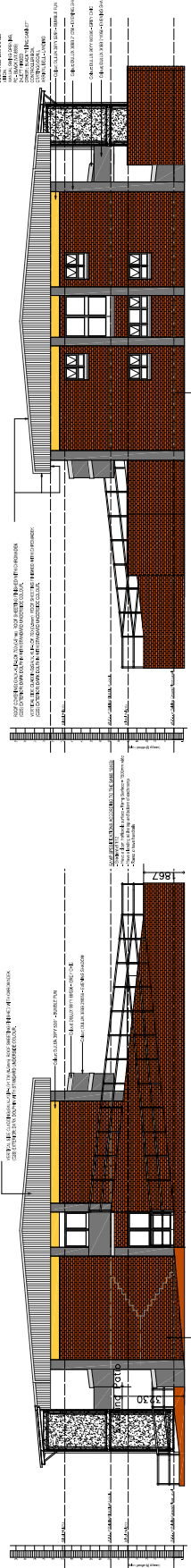
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE RELEVANT AUTHORITIES.

DRAWING DETAIL	
NO.	DESCRIPTION
1	NEW RAMP
2	NEW PATIO
3	NEW STORAGE ROOM
4	NEW LOUNGE AREA
5	NEW KITCHEN
6	NEW BEDROOM
7	NEW ENTRANCE
8	NEW STAIRS
9	NEW ROOF
10	NEW WALLS
11	NEW FLOORS
12	NEW CEILING
13	NEW LIGHTING
14	NEW VENTILATION
15	NEW ELECTRICAL
16	NEW PLUMBING
17	NEW PAINT
18	NEW GLAZING
19	NEW ROOFING
20	NEW LANDSCAPING

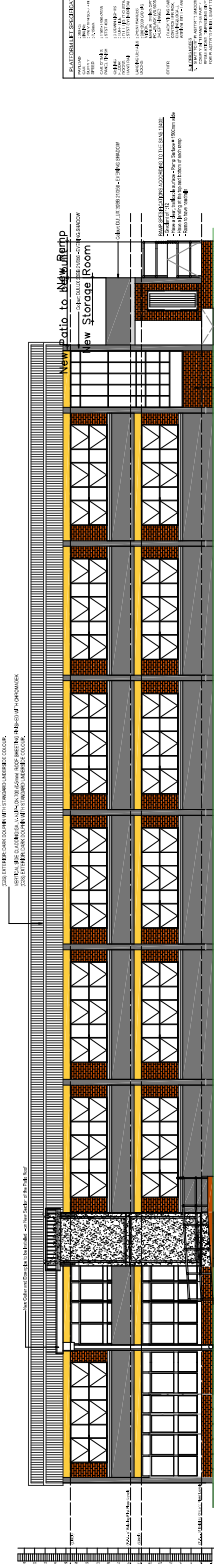


NORTH ELEVATION
scale 1:100

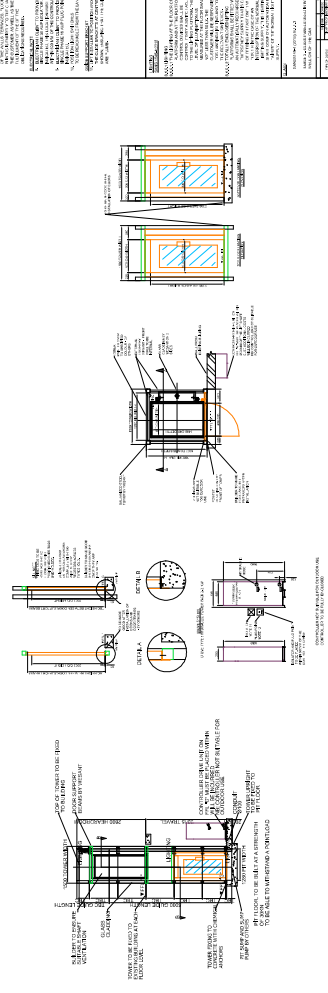


EAST ELEVATION
scale 1:100

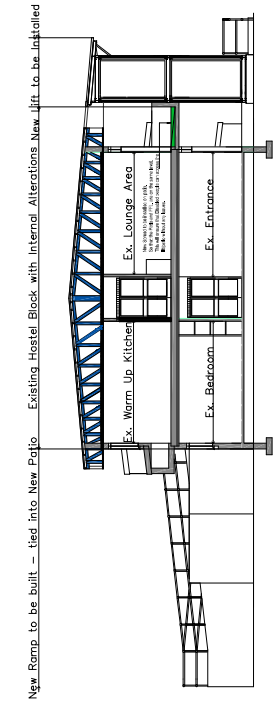
WEST ELEVATION
scale 1:100



SOUTH ELEVATION
scale 1:100



ALL DETAIL DRAWINGS PROVIDED BY PART 7



New Ramp to be built - tied into New Patio - Existing Hostel Block with Internal Alterations New Rft. to be installed

ALL SERVICES MUST BE CHECKED ON SITE PRIOR TO COMMENCEMENT OF WORK. (ELECTRICAL, SEWER, WATER & STORMWATER). IF ANY SERVICES ARE A PROBLEM, PLEASE NOTIFY THE PROJECT COUNTRY PROJECT OFFICE.

CLIENT
TVEET Maitland Campus - Renovation to Hostel Block

DRAWING DESCRIPTION
FEMALE HOSTEL BLOCK ELEVATIONS

PROFESSIONAL CONSULTANTS

PARISA PARISA

DRAWING DETAIL

NO.	DATE	BY	CHKD BY	APP'D BY
1	10/10/2023	...	...	...
2	10/10/2023	...	...	...
3	10/10/2023	...	...	...
4	10/10/2023	...	...	...
5	10/10/2023	...	...	...
6	10/10/2023	...	...	...
7	10/10/2023	...	...	...
8	10/10/2023	...	...	...
9	10/10/2023	...	...	...
10	10/10/2023	...	...	...
11	10/10/2023	...	...	...
12	10/10/2023	...	...	...
13	10/10/2023	...	...	...
14	10/10/2023	...	...	...
15	10/10/2023
16	10/10/2023
17	10/10/2023
18	10/10/2023
19	10/10/2023
20	10/10/2023

NOTES

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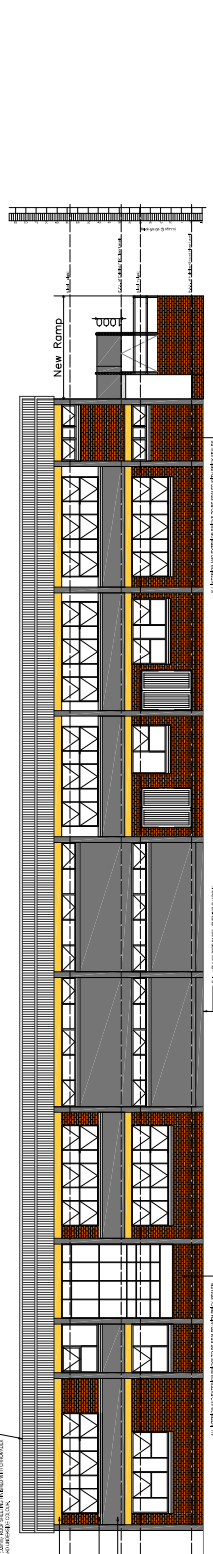
ALL SERVICES MUST BE COMPLETED PRIOR TO CONSTRUCTION (ELECTRICAL, SEWER, WATER & STORMWATER). PHOTOS PLEASE NOTIFY THE ARCHITECT IMMEDIATELY.

PROJECT DESCRIPTION
 TIVET Marketplace Campus -
 Renovation to Hostel Blocks

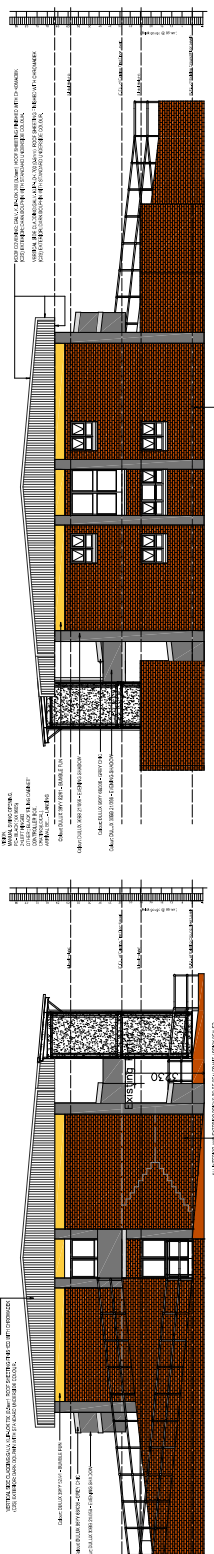
DRAWING DESCRIPTION
 MALE HOSTEL BLOCK
 ELEVATIONS

COURT
 PROFESSIONAL
 PASPA AFRICA
 PROFESSIONAL CONSULTANTS

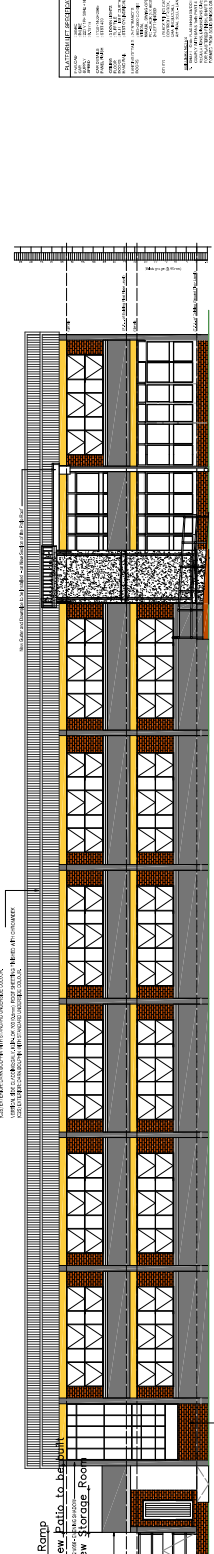
DRAWING DETAIL	
NO.	DESCRIPTION
1	NEW RAMP
2	NEW PATIO TO BE BUILT
3	NEW GARAGE ROOF
4	NEW RAMP
5	NEW PATIO TO BE BUILT
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148	NEW RAMP
149	NEW PATIO TO BE BUILT
150	NEW GARAGE ROOF



SOUTH ELEVATION
 scale 1:100

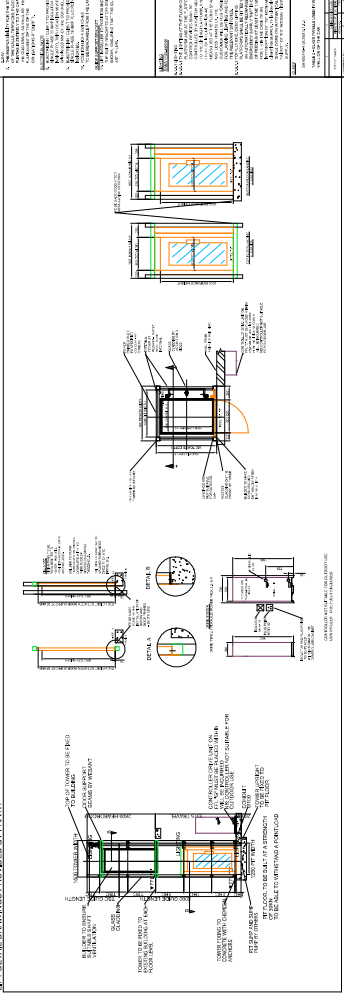


EAST ELEVATION
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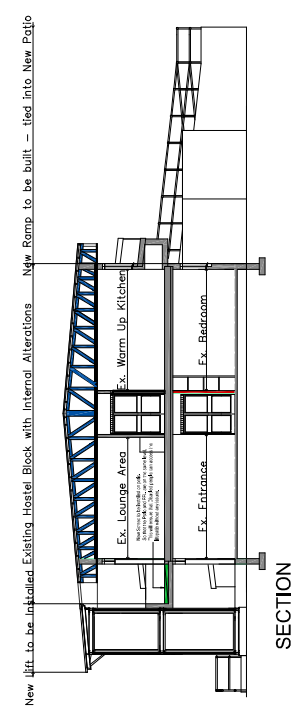


WEST ELEVATION
 scale 1:100

NORTH ELEVATION
 scale 1:100



IF DETAIL DRAWINGS PROVIDED BY PASPA



New Ramp to be built into Existing Hostel Block with Internal Alterations. New Ramp to be built - tied into New Patio

SECTION

