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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE  
AREA**

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**THE CONTRACT**



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
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**C1 - AGREEMENT AND CONTRACT DATA**



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
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**FORM OF OFFER AND ACCEPTANCE**



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
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**C.1.1 - FORM OF OFFER AND ACCEPTANCE**

THE OFFER AND ACCEPTANCE FORM IS BOUND INTO **SECTION 1** (See end of Returnable Documents) OF THIS DOCUMENT AS PART OF THE RETURNABLE DOCUMENTS. ONCE A CONTRACT IS CONCLUDED WITH A SUCCESSFUL TENDERER, THIS PAGE WILL BE REPLACED WITH THE FILLED AND SIGNED OFFER AND SIGN ACCEPTANCE BY THE EMPLOYER AND IT WILL BECOME PART OF THE CONTRACT.

**PLEASE SUBMIT THE OFFER AND ACCEPTANCE FORM WITH THE OTHER  
RETURNABLE DOCUMENTS.**



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA**

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**C1.2 - CONTRACT DATA**

<b>C 1.2 CONTRACT DATA:</b>	
<b>CONTRACT DATA FOR:</b>	
<b>LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA</b>	
<b>Tender no: ZNB 5243/2025-H</b>	
	The General Conditions of Contract are the clauses contained in the General Conditions of Contract (2010) (Second Edition) published by the South African Institution of Civil Engineering. Copies of these conditions of contract may be obtained through most regional offices of the South African Institution of Civil Engineering, telephone number 011 805 5947 or by visiting their website at www.saice.org.za.
	<b>CONTRACT SPECIFIC DATA</b> The following contract specific data are applicable to this contract:
	<b>CONTRACT VARIABLES</b>  This schedule contains all variables specific to this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of this <b>agreement</b> .  Spaces requiring information must be filled in, shown as 'not applicable' or deleted <u>but not left blank</u> . Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross referenced to the applicable clause of the schedule. Key cross reference clauses are italicised in [ ] brackets. <b>The Engineer/Principal Agent, in accordance with Clause 1.1.1.16, shall obtain the specific approval from the Employer before executing any of his functions according to the "Conditions under which Consultants are appointed", or in the event where an employee of the Employer represents the Employer, the relevant General Delegations applicable at the time of executing his/her duties as described in Clause 3.1.2.</b>
	<b>PRE-TENDER INFORMATION</b>
	<b>CONTRACTING AND OTHER PARTIES</b>
[1.1.1.15]	<b>Employer:</b> <b>Head: Department of Health (KZN Department of Health: Province of KwaZulu-Natal)</b>  Postal address:  <b>Pietermaritzburg</b> <b>3200</b>  Tel: <b>033 - 940 2400</b> Fax: <b>N/A</b>
[1.2.1.2]	Physical address: <b>310 Jabu Ndlovu Street</b> <b>Pietermaritzburg</b> <b>3200</b>
<b>PART 1: DATA PROVIDED BY THE EMPLOYER</b>	
[1.1.1.13]	<b>Defects Liability Period</b> The defects liability period is: <b>12 months</b> Defects Liability Period is Applicable for the whole of the Works
	<b>Latent Defect Period</b>
[5.16.3]	The latent defect period is: <b>5 years after the Final Approval Certificate</b>
	<b>Documentation required before Commencement of the Works:</b>
[5.3.1]	The documentation required before commencement with the Works execution are;
[4.3]	Health and Safety Plan <b>The Contractor shall deliver his Health and Safety Plan of the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.</b>
[5.6]	Initial Programme <b>The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date.</b>
[6.2]	Guarantee <b>The Contractor shall deliver his chosen Guarantee (security) for this Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.</b>
[8.6]	Insurance <b>The Contractor shall deliver his insurance for the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.</b>
	Cash flow by contractor <b>The Contractor shall deliver his Cash flow for the Works within 14 calendar days after notice from the Employer, prior to the Commencement Date.</b>
	Priced Bill of Quantity <b>The Contractor shall deliver his Priced Bill of Quantity within 14 calendar days after notice from the Employer, prior to the Commencement Date.</b>
	Programme <b>The Contractor is required to submit his Programme of Works in terms of Clause 5.6.1 and 5.3.1 and the Principal Agent is required to approve this within 7 days in terms of Clause 5.6.3</b>
	Other requirements
[5.3.2]	The time to submit the documentation required before commencement with Works execution is: <b>14</b> calendar days



[1.1.1.14]	<p><b>Practical Completion Date</b></p> <p>The Practical Completion date is: <b>A time measured from the Commencement date.</b></p>
[5.5.1] [5.13.1]	<p>For the <b>works</b> as a whole: The whole of the works shall be completed within: <span style="border: 1px solid black; padding: 2px;">24</span> Months (which shall be deemed to include all Non – Working Days, Special Non – Working Days and the year-end Builders Annual Industry Holiday Periods).</p> <p>The date for <b>practical completion</b> shall be <span style="border: 1px solid black; padding: 2px;">To be determined</span></p> <p>The penalty per calendar day shall be : <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p>
[5.5.1] [5.13.1]	<p><b>For the works in sections:</b></p> <p><b>The date for practical completion from the commencement date and the penalty per calendar day:</b></p> <p>Portion 1: [5.5.1] <span style="border: 1px solid black; padding: 2px;">N/A</span> [5.13.1] <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p> <p>Portion 2: [5.5.1] <span style="border: 1px solid black; padding: 2px;">N/A</span> [5.13.1] <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p> <p>Portion 3: [5.5.1] <span style="border: 1px solid black; padding: 2px;">N/A</span> [5.13.1] <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p> <p>Portion 4: [5.5.1] <span style="border: 1px solid black; padding: 2px;">N/A</span> [5.13.1] <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p> <p>Portion 5: [5.5.1] <span style="border: 1px solid black; padding: 2px;">N/A</span> [5.13.1] <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p>
[5.5.1] [5.13.1]	<p>Portion 6: [5.5.1] <span style="border: 1px solid black; padding: 2px;">N/A</span> [5.13.1] <span style="background-color: #90EE90; padding: 2px;">0.04% of the Contract Price, rounded to the nearest R10</span></p>
[1.3.2]	<p>The law applicable to this agreement shall be that of the: <b>Republic of South Africa</b></p>
[6.10.1.5]	<p>The percentage advance on materials not yet built into the Permanent Works is: <span style="background-color: #90EE90; padding: 2px;">80,00%</span></p>
[6.10.3]	<p>Percentage retention on amounts due to contractor is: <span style="background-color: #90EE90; padding: 2px;">The Percentage retention is nil. The only security required by the Employer will be such as selected by the Contractor on the Form of Offer and Acceptance and Part 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR, point 2 - Documents, of the Contract Data.</span></p> <p>Maximum retention is: <span style="border: 1px solid black; padding: 2px;">10,00%</span> of the Contract Price</p>
[6.8.1] [6.8.2] [6.8.3] [6.8.2] [6.8.3]	<p>Notwithstanding anything to the contrary contained in the General conditions of Contract and Preliminaries, this contract is a fixed price contract and not subject to any Contract Price Adjustment Factors.</p>
[5.14.5]	<p><b>The following clause must be added to clause 5.14.5:</b></p> <p>[5.14.5.6] The employers agent shall submit the <b>final account</b> within 3 calendar months to the principal agent.</p>
[10.5] [10.5.3] [10.9.1]	<p>The determinations of disputes shall be by ARBITRATION ONLY.</p> <p>The number of Adjudication Board Members to be appointed is: <span style="border: 1px solid black; padding: 2px;">One</span></p> <p>Replace the last part of the clause with the following: <i>"..on the application of either party, by the Chairman, or his nominee of the Association of Arbitrators."</i></p>
[1.1]	<p><b>Clause</b></p> <p>[1.1.1.5] <b>COMMENCEMENT DATE</b> – means the <b>actual</b> date of Site Hand over that should not occur prior to the Tenderer receiving one fully signed copy of the Offer and Acceptance in terms of the Form of Offer and Acceptance.</p> <p>[5.12.2.2] <b>ABNORMAL CLIMATIC CONDITIONS</b> - means conditions over and above what could reasonably be expected for the specific locality where the Works are being executed and include inter alia excessive rain, heat, cold, wind and any other climatic condition that would not normally be experienced during the season that the Works are executed in that area. The South African Weather Service's (<a href="http://www.weathersa.co.za">http://www.weathersa.co.za</a>) 10 year average climatic conditions statistics would be what could be reasonably expected for the specific locality where the Works are executed.</p> <p>[6.2.1] <b>CONSTRUCTION GUARANTEE</b> – means an on demand guarantee at call obtained by the <b>contractor</b> from an institution approved by the <b>employer</b> in terms of the <b>employer's</b> construction guarantee form as selected in the Offer and Acceptance Form and the <b>contract data</b>.</p> <p><b>CONSTRUCTION PERIOD</b> – means the period commencing on the <b>commencement date</b> and ending on the date of <b>due completion date</b>. This period will be deemed to commence on actual site hand over date to the contractor and end on the date of practical completion and shall include all annual industrial holiday periods, Sundays and public holidays.</p> <p><b>CORRUPT PRACTICE</b> – means the offer, giving, receiving, or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.</p> <p><b>FINAL ACCOUNT</b> - The document prepared by the principal agent, which reflects the contract value of the works at final approval or termination.</p> <p><b>FRAUDULENT PRACTICE</b> – means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of any tenderer and includes collusive practise among tenderers (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.</p>
	<p><b>INTEREST</b> – the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:</p> <p>(a) in respect of interest owed by the <b>employer</b>, the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply; and</p> <p>(b) in respect of interest owed to the employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply</p>

	<p>[1.1.1.16] <b>ENGINEER/PRINCIPAL AGENT</b> – means the person or entity appointed by the <b>Employer</b> and named in the <b>Contract Data</b> as the <b>Engineer /Principal Agent</b> to act as agent of the <b>Employer</b>. In the event of an <b>Engineer/Principal Agent</b> not being appointed, then all the duties and obligations of an <b>Engineer/Principal Agent</b> as detailed in the <b>Contract</b> shall be fulfilled by a representative of the <b>Employer</b> as named in the <b>Contract Data</b>. (Hereafter referred to as <b>Engineer</b>)</p> <p>[1.1.1.21] <b>GENERAL ITEMS</b> - or preliminaries means items stipulated in the Pricing Data relating to general obligations, site services, facilities and/or items that cover elements of the cost of the work which are not considered as proportional to the quantities of the Permanent Works.</p>
	<p>[4.4.1] Add the following to the clause 4.4.1: "<i>The Contract shall only use subcontractors who are duly registered with the CIDB and who has an ACTIVE status at the time of submitting the tender</i>"</p>
	<p>[6.2.1] Refer to Offer and Acceptance form for the various options that the contractor may choose from in providing a form of <b>Guarantee</b> under "GUARATEE OPTIONS".</p>
	<p>[6.10.6.2] Replace "<i>at the prime overdraft rate, as charged by the Contractor's Bank,</i>" with "<i>..at the interest rate as determined by the Minister of Justice and Constitutional Development from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975).</i>" Omit "<i>,on all overdue payments from the date on which the same should have been paid...</i>" and replace with "<i>only after 30 calendar days from receiving written notice from the Contractor that the amount is overdue...</i>"</p>
<p>[5.12.3]</p> <p>[5.14.5.1]</p> <p>[5.16.4]</p> <p>[6.2.3]</p> <p>[9.3.2.2]</p>	<p><b>SPECIAL CONDITIONS OF CONTRACT</b></p> <p>Omit clause 5.12.3 and add the following:  <i>"5.12.3. If an extension of time is granted, the Contractor shall be paid such additional time-related General Items, including for special non-working days, if applicable as are appropriate regarding to any other compensation which may already have been granted in respect of the circumstances concerned. The reasons for extension of time that would invoke payment of time related General Items are inter alia;</i></p> <p>5.12.3.1 <i>Failure to give possession of the site to the contractor.</i>  5.12.3.2 <i>Making good physical loss and repairing damage to the works where the contractor is not at risk.</i>  5.12.3.3 <i>Contract instructions not occasioned by default by the contractor.</i>  5.12.3.4 <i>Failure to issue construction information timeously or the late issue of a contract instruction following a request from the contractor.</i>  5.12.3.5 <i>Late acceptance by the principal agent of a design undertaken by a selected subcontractor where the contractor's obligations have been met.</i>  5.12.3.6 <i>Suspension or cancellation termination invoked by a nominated or selected n/s subcontractor due to default by the employer or the principal agent.</i>  5.12.3.7 <i>Insolvency of a nominated subcontractor.</i>  5.12.3.8 <i>A direct contractor.</i>  5.12.3.9 <i>Opening up and testing of work and materials and goods where such work is according to in accordance with the contract documents.</i>  5.12.3.10 <i>The execution of additional work for which the quantity included in the bills of quantities is not sufficiently accurate.</i>  5.12.3.11 <i>Late or failure to supply materials and goods for which the employer is responsible.</i>  5.12.3.12 <i>Suspension of the works."</i></p> <p>Omit entire clause 5.14.5.1</p> <p>Add the following new clause "5.16.4. Upon the issue of a Final Approval Certificate, unless otherwise provided in the Contract:  5.16.4.1. The performance Guarantee (if any) shall be returned within 14 days to the guarantor in terms of Clause 7."</p> <p>Add to clause 6.2.3 the following "<i>The Contractor shall provide proof of paid-up premium payments to accompany his payment certificate as proof that his performance guarantee has not expired yet. The Contractor will not receive payment without proof of the validity of their performance guarantee.</i></p> <p>Omit "<i>without prejudice to the exercise of any lien the Contractor may have acquired over the Employer's property.</i>"</p> <p>Duties and functions of the <b>Engineer</b> requiring the specific approval of the <b>Employer</b> BEFORE execution of any part of these duties are as follows:</p> <p>(a) Determinations of contractors claims for extension of time (revision of the contract completion date). All claims for extension of time shall be submitted by the <b>Engineer</b>, together with the <b>Engineer's</b> recommendations, to the <b>Employer</b> for determination. Omit "Engineer" in clause 4.2.2 and replace with "Employer".</p> <p>(b) Drawings, instructions or communications of any kind requiring variations of the works and involving EXTRA's shall NOT be given effect by the <b>Contractor</b> UNTIL Official Variation Order submission including the Financial Request for Additional Funds, has been approved and signed by the <b>Head of Department: Health</b></p> <p>(c) Insurance policies to be approved by the <b>Employer</b> within 21 days of the date of the <b>Commencement</b> of the Works.</p> <p>(d) Any notice of disagreement raised by the <b>Contractor</b> or written Dispute Notice given by the <b>Contractor</b> to the <b>Engineer</b> shall be submitted by the <b>Engineer</b>, together with the <b>Engineer's</b> recommendations, to the <b>Employer</b> for determination.</p> <p>(e) The issue of the certificate of practical completion, certificate of completion and the final approval certificate shall be signed and submitted by the <b>Engineer</b>, to the <b>Employer</b> for final approval and signature. The certificates shall not be considered as officially issued until signed by the <b>Employer</b>.</p> <p><b>MANAGING PROJECT DURATION</b></p> <p>(a) The Contractor shall co-ordinate his programme with all other contractors whose work may precede or be executed simultaneously to his own. The Contractor will be called upon to plan and control the project using the Project Evaluation and Review Technique (PERT) or other approved Critical Path Method (CPM) network analysis of his events and activities and those of the sub-contractors in his employ and must co-ordinate his planning with any other contractor employed on the project. A fortnightly project control report will be expected from the Contractor in writing, evaluating any gains or delays against the critical path and he should allow for all costs involved in planning reviewing and updating the programme to the satisfaction of the Principal Agent against this item.</p> <p>(b) Activity-and total float shall belong to the Employer.</p> <p>(c) The Contractor shall deliver his programme of work within 10 calendar days after notice from the Employer, prior to the Commencement Date.  It is a condition of this contract that, the contractor submit to the Engineer/principal agent a detailed CPM Programme which shall be to the approval of the Engineer/principal agent. In this regard tenderers are advised to consult with the Engineer/Principal Agent as to the format and requirements of the programme as no claim whatsoever will entertained should the programme fail to meet the requirements of the Engineer/Principal Agent. Failure to submit the programme within the stipulated time may result in the contractor being held in breach of contract.</p> <p>The approved programme will form the basis of time management of the project and extension of time will not be guaranteed unless the Contractor has strictly complied with this provision.  The programme shall make allowance for inclement weather at 3 workings days per month.</p> <p><b>INCLEMENT WEATHER AND CLAIMS FOR DELAYS IN PERFORMANCE</b></p> <p>(a) The Contract Sum includes a monthly allowance of 3 working days inclement weather during which rainfall exceeds 10mm per day for months as indicated in the Scope of Works. These days shall be reflected on the critical path of the Contractor's programme as specified in MANAGING PROJECT DURATION above.</p> <p>(b) Claims for delays in performance due to inclement weather shall be calculated separately for each calendar month and for the project as a whole. Delays or gains to the critical path shall be reflected in all revisions of the programme. An extension of time will only be granted where the following conditions are met:</p> <p>(i) The criteria to be used for WORK stoppages shall be for safety hazards or poor quality of work.</p> <p>(ii) The Employer's site representative or the Employer's Principal Agent, if the site representative is not available shall be notified when the Contractor stops the work and intends to claim performance delays. The Employer representative shall inspect the situation together with the Contractor and give an immediate decision.</p> <p>1. The stoppage claimed must cause a delay in the Completion Date of work. If the critical activities can proceed and a non-critical activity is delayed due to inclement weather no claims for delay shall be granted.</p> <p>2. No claims for stoppages less than 2 (two) hours per day shall be considered.</p> <p>3. Claims granted for more than 2 (two) hours, but less than 10 (ten) hour (lunch included) day, shall be added together and expressed as full days.</p> <p>4. All claims shall be submitted in writing to the Principal Agent within one working day of the actual stoppage.</p> <p>5. The total delay in performance granted to the Contractor expressed in days shall be added to the contractual Completion Date of each section of the Works. The contractual penalty clause shall only come into effect after this newly arrived date.</p>

	6. Total delays (in hours) will be rounded up or down to the nearest integer for the calculation of Working Days. The total hours (including lunch) per Working Day shall be 10 unless otherwise indicated on the Contractor's programme.																																									
	7. Where the programmed delays for inclement weather exceed the actual delays incurred the Completion Date(s) will not be adjusted.																																									
	8. Where the project includes builder's holidays the programmed durations for inclement weather shall be adjusted pro-rate to the actual Working Days.																																									
	9. The total of all monthly delays due to inclement weather shall be calculated in accordance with the example given below:																																									
	<table border="1"> <thead> <tr> <th rowspan="2">Description</th> <th colspan="5">Months</th> </tr> <tr> <th>Sept</th> <th>Oct</th> <th>Nov</th> <th>Dec</th> <th>Jan</th> </tr> <tr> <th></th> <th>Hours</th> <th>Hours</th> <th>Hours</th> <th>Hours</th> <th>Hours</th> </tr> </thead> <tbody> <tr> <td>Programmed Rain days</td> <td>0</td> <td>30</td> <td>30</td> <td>15</td> <td>15</td> </tr> <tr> <td>Actual Rain days</td> <td>16</td> <td>22</td> <td>35</td> <td>15</td> <td>18</td> </tr> <tr> <td>Difference</td> <td>-16</td> <td>8</td> <td>-5</td> <td>0</td> <td>-3</td> </tr> <tr> <td colspan="5"></td> <td>Estimated Extension of time - in working days</td> </tr> </tbody> </table>	Description	Months					Sept	Oct	Nov	Dec	Jan		Hours	Hours	Hours	Hours	Hours	Programmed Rain days	0	30	30	15	15	Actual Rain days	16	22	35	15	18	Difference	-16	8	-5	0	-3						Estimated Extension of time - in working days
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8 hrs/day*	See point 5.2 in the Scope of Works for the specific days the tenderer must allow for in this contract.																																									

**Tender no:** 0 **Part 2: CONTRACT DATA PROVIDED BY THE CONTRACTOR:**

**POST-TENDER INFORMATION**  
**Note:** All information for this section requires consultation with the Contractor. The Engineer/Principal Agent shall not pre-select any of the alternatives available to the Contractor.

**1 CONTRACT DETAILS**

[1.1.1.9] **Contractor Name:** .....

[1.2.1.2] **Postal address:** .....

.....

.....

Tel no ..... Fax no .....

Tax / VAT Registration No: ..... e-mail .....

Physical address: .....

.....

.....

[1.1.1.10] The accepted **contract price** inclusive of tax is R :  
.....  
[Amount in words]

**Payment Of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)**

The preliminaries amounts shall be paid in terms of:

*Alternative A	Yes
**Alternative B	N/A

\* Assessed by the Engineer/Principal Agent as an amount prorated to the value of the Work duly executed in the same ratio as the Preliminaries bears to the Contract Price excluding VAT, Preliminary amount, Contingencies and any CPAP.

\*\* Calculated from the priced Bill of Quantity/Lump Sum document. The Contractor and the Engineer/Principal Agent shall agree on a division of the priced Preliminaries items into: initial establishment charge, monthly charge and final disestablishment charge.

If the Contractor and the Engineer/Principal Agent can not agree, within 10 Working Days from the Commencement Date, on such a division then the Engineer/Principal Agent shall make a division of the Preliminaries to be incorporated in the valuations for each monthly payment certificate as follows;

10% of the General Items/Preliminaries amount shall not be varied

15% of the General Items/Preliminaries shall only be varied in proportion of the Contract Price to the Contract Sum

75% of the General Items/Preliminaries shall be varied in proportion to the revised Construction Period compared with the initial Construction Period.

**Adjustment of Preliminaries (Clause 6.7, 6.8, 6.10 and 6.11)**

**Alternative A** For the adjustment of Preliminaries both the Contract Sum and the Contract Value (including tax) shall exclude the amount of Preliminaries, all Contingency Sum(s) and any provision for Cost Price Adjustment Provisions:-

- An amount which shall not be varied.

- An amount varied in proportion to the contract value as compared to the Contract Sum.

- An amount varied in proportion to the Construction Period as compared to the initial Construction Period (excluding revisions to the Construction Period to which the Contractor is not entitled) to adjustment of the Contract Value in terms of the agreement.

The Contractor shall provide a breakdown of charges (including tax) within 15 working days of the date of acceptance of tender and, where applicable, an apportionment of Preliminaries per section

If the Contractor and the Principal Agent cannot agree, within ten (10) Working Days from the Commencement Date, on such a division then the Principal Agent shall make a division of the Preliminaries to be incorporated in the valuations for each monthly payment certificate as follows;

0% of the amount shall not be varied

10% of the amount shall not be varied

15% varied in proportion of the Contract Value to the Contract Sum

75% varied in proportion to the revised Construction period compared with the initial Construction Period

**Sectional Completion : Subdivision of Preliminaries Costs**

For the adjustment of preliminaries for sections of the work the value of fixed, value, and time related amounts of the preliminaries for each section is required. The contractor is to provide such information within fifteen (15) working days of taking possession of the site, failing which the categorised preliminaries amounts shall be prorated to the value of each section.

The above shall apply equally for projects where sectional completion was not contemplated at tender stage but subsequently occurred on an adhoc basis during construction of the works as agreed between the client and the employer. The original priced categorised amounts for fixed, value, and time related amounts shall be prorated to the value of each section.

When an extension of time has been granted in terms of the GCC and the preliminaries require to be adjusted accordingly, the pertinent sectional (subdivided) categorised preliminaries amounts shall be utilised, where applicable and not the overall preliminary amounts.

	<p>Where sectional completion is required in terms of the agreement, the Contractor shall provide the Principal Agent with the division of the above categorized amounts into sections. Should the Contractor fail to provide such information within the period stipulated the categorized amounts shall be prorated to the value of each section.</p>	<div style="border: 1px solid black; background-color: #90EE90; padding: 5px; width: 100px; margin: 0 auto;">YES</div>
<b>Alternative B</b>	<p>or</p> <p>The Contractor shall within 15 working days of the date of possession of the site provide the Principal Agent with a detailed breakdown of Preliminaries amounts for the works as a whole, or per section where applicable, including administrative and supervisory staff charges and for the use of construction equipment in terms of the programme.</p>	<div style="border: 1px solid black; background-color: #90EE90; padding: 5px; width: 100px; margin: 0 auto;">NO</div>
<p><b>The contractor is informed that only option 'A' shall apply</b></p>		
	<p>Waiver of the Contractors lien or right of continuing possession is required.</p>	<div style="border: 1px solid black; background-color: #90EE90; padding: 5px; width: 50px; margin: 0 auto;">YES</div>
<p><b>GUARANTEE OPTIONS</b></p>		
	<p>The Tenderer agrees to provide a bank or insurance guarantee in accordance with clause 6.2.3 of the Conditions of the GCC2010 Contract within the period stated in the Contract Data. This guarantee shall be for a sum equal to an amount stated in the Contract Data.</p>	
	<p><b>Guarantees submitted must be issued by either an insurance company duly registered in terms of the Insurance Act (Long Term Insurance Act No 52 of 1998 or Short Term Insurance Act No 53 of 1998) or by a bank duly registered in terms of the Banks Act No 94 of 1990, on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.</b></p>	
	<p>(a) the tenderer accepts that in respect of contracts up to R1 million, a payment reduction of 5% of the contact value will be applicable and will be reduced by the Employer in terms of the applicable conditions of contract.</p>	
	<p>(b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below: select one option</p>	
	<p>(i) payment reduction of 10% of the value certified in the payment certificate (excluding VAT)</p>	
	<p>(ii) bank or insurance Performance Guarantee of 10 % of the Contract Price</p>	
	<p>(iii) bank or insurance guarantee of 5% of the Contract Price and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)</p>	
<p><b>3 SIGNATURES OF THE CONTRACTING PARTIES</b></p>		
	<p>Thus done and signed at.....on .....of.....20.....</p> <p>Name of signatory _____ for and behalf of the <b>Employer</b> who by signature hereof warrants</p> <p>Capacity of signatory _____ as Witness.</p> <p>Thus done and signed at.....on .....of.....20.....</p> <p>Name of signatory _____ for and behalf of the <b>Contractor</b> who by signature hereof</p> <p>Capacity of signatory _____ as Witness.</p>	



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA**

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**C1.3 - FORM OF GUARANTEE**

**C1.3 PERFORMANCE GUARANTEE -  
GCC FOR CONSTRUCTION WORKS (2nd Edition - 2010)**

Head: Department of Health  
KZN Department of Health:  
Private Bag X 9051  
Pietermaritzburg  
3200

**ON DEMAND PERFORMANCE GUARANTEE**

**Tender Number :** ZNB 5243/2025-H

For use with the General Conditions of Contract for Construction Works, Second Edition, 2010.

**GUARANTOR DETAILS AND DEFINITIONS**

"Guarantor" means: \_\_\_\_\_

Physical Address: \_\_\_\_\_

"Employer" means: The Provincial Administration of KwaZulu-Natal in its Department of Health

"Contractor" means: \_\_\_\_\_

"Engineer" means: \_\_\_\_\_

"Works" means: 

<b>LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA</b>
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"Site" means: \_\_\_\_\_

"Contract" means: The Agreement made in terms of the Form of Offer and Acceptance and such amendments or additions to the Contract as may be agreed in writing between the parties.

"Contract Sum" means: The accepted amount inclusive of tax of: \_\_\_\_\_

Amount in Words:

"Guaranteed Sum" means: The maximum aggregate amount of: 10% \_\_\_\_\_  
Of Contract Sum

Amount in Words: \_\_\_\_\_

"Expiry Date" means: \_\_\_\_\_

### CONTRACT DETAILS

Engineer Issues: Interim Payment Certificates, Final Payment Certificates and the Certificate Completion of the Works as defined in the Contract.

### PERFORMANCE GUARANTEE

- 1 The Guarantor's liability shall be limited to the amount of the Guaranteed Sum.
- 2 The Guarantor's period of liability shall be from and including the date of issue of this Performance Guarantee and up to and including the Expiry Date or the date of issue by the Engineer of the Certificate of Completion of the Works or the date of payment in full of the Guaranteed Sum, whichever occurs first. The Engineer and/or the Employer shall advise the Guarantor in writing of the date on which the Certificate of Completion of the Works has been issued.
- 3 The Guarantor hereby acknowledges that:
  - 3,1 any reference in this Performance Guarantee to the Contract is made for the purpose of convenience and shall not be construed as any intention whatsoever to create an accessory obligation or any intention whatsoever to create a suretyship;
  - 3,2 its obligation under the Performance Guarantee is restricted to the payment of money.
- 4 Subject to the Guarantor's maximum liability referred to in 1, the Guarantor hereby undertakes to pay the Employer the sum certified upon receipt of the documents identified in 4.1 to 4.3:
  - 4,1 A copy of a first written demand issued by the Employer to the Contractor stating that payment of a sum certified by the Engineer in an Interim or Final Payment Certificate has not been made in terms of the Contract and failing such payment within seven (7) calendar days, the Employer intends to call upon the Guarantor to make payment in terms of 4.2;
  - 4,2 A first written demand issued by the Employer to the Guarantor at the Guarantor's physical address with a copy to the Contractor stating that a period of seven (7) days has elapsed since the first written demand in terms of 4.1 and the sum certified has still not been paid;
  - 4,3 A copy of the aforesaid payment certificate which entitles the Employer to receive payment in terms of the Contract of the sum Certified in 4.

5 Subject to the Guarantor's maximum liability referred to in 1, the Guarantor undertakes to pay to the Employer the Guaranteed Sum or the full outstanding balance upon receipt of a first written demand from the employer to the Guarantor at the Guarantor's physical address calling up this Performance Guarantee, such demand stating that:

5,1 the Contract has been terminated due to the Contractor's default and that this Performance Guarantee is called up in terms of 5; or

5,2 a provisional or final sequestration or liquidation court order has been granted against the Contractor and that the Performance Guarantee is called up in terms of 5; and

5,3 the aforesaid written demand is accompanied by a copy of the notice of termination and/or the provisional/final sequestration and/or the provisional liquidation court order.

6 It is recorded that the aggregate amount of payments required to be made by the Guarantor in terms of 4 and 5 shall not exceed the Guarantor's maximum liability in terms of 1.

7 Where the Guarantor has made payments in terms of 5, the Employer shall upon the date of issue of the Final Payment Certificate submit an expense account to the Guarantor showing how all monies received in terms of this Payment Guarantee have been expended and shall refund to the Guarantor any resulting surplus. All monies refunded to the Guarantor in terms of this Performance Guarantee shall bear interest at the prime overdraft rate of the Employer's bank compounded monthly and calculated from the date payment was made by the Guarantor to the Employer until the date of refund.

8 Payment by the Guarantor in terms of 4 or 5 shall be made with seven (7) calendar days upon receipt of the first written demand to the Guarantor.

9 Payment by the Guarantor in terms of 5 will only be made against the return of the original Performance Guarantee by the Employer.

10 The Employer shall have the absolute right to arrange his affairs with the Contractor in any manner which the Employer may deem fit and the Guarantor shall not have the right to claim his release from this Performance Guarantee on account of any conduct alleged to be prejudicial to the Guarantor.

11 The Guarantor chooses the physical address as stated above for the service of all notices for all purposes in connection herewith.

12 This Performance Guarantee is neither negotiable nor transferable and shall expire in terms of 2, where after no claims will be considered by the Guarantor. The original of this Guarantee shall be returned to the Guarantor after it has expired.

13 This Performance Guarantee, with the required demand notices in terms of 4 or 5, shall be regarded as a liquid document for the purposes of obtaining a court order.

14 Where this Performance Guarantee is issued in the Republic of South Africa the Guarantor hereby consents in terms of Section 45 of the Magistrate's Court Act No 32 of 1944, as amended, to this jurisdiction of the Magistrate's Court of any district having jurisdiction in terms of Section 28 of the said Act, notwithstanding that the amount of the claim may exceed the jurisdiction of the Magistrate's Court.

Signed at

\_\_\_\_\_

Date

\_\_\_\_\_

Guarantor's signatory (1)	_____
Capacity	_____
Guarantor's signatory (2)	_____
Capacity	_____
Witness signatory (1)	_____
Witness signatory (2)	_____



**KWAZULU-NATAL PROVINCE**

HEALTH  
REPUBLIC OF SOUTH AFRICA

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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO  
STORAGE AREA**

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**PART C2 - PRICING DATA**

<b>C2.1 PRICING INSTRUCTIONS</b> <b>GCC FOR CONSTRUCTION WORKS (Second Edition 2010)</b>			
<b>Project title:</b>	<b>LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA</b>		
<b>Tender no:</b>	<b>ZNB 5243/2025-H</b>	<b>Project Code:</b>	<b>LADY004</b>

### **C2.1 Pricing Instructions**

	<p>Where any item is not relevant to this specific contract, such item is marked N/A (signifying “not applicable”)</p> <p>The adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories by insertion of “F”, “V”, “T” as the case may be against the price in the “rate” column immediately preceding the “amount” column, where “F” denotes a fixed amount (amount not varied), “V” denotes an amount variable in proportion to value and “T” denotes an amount variable in proportion to time.</p> <p><b>MASSES AND MEASURING UNITS</b></p> <p>These shall be in accordance with the Measuring Units and National Measuring Standards Act No. 76 of 1973 and amendments thereto.</p> <p>The pages of each of these documents are numbered consecutively and before the Tenderer submits his tender he should check the number of pages, and if any are found missing or duplicated, or the figures or writing indistinct, or the documents contain any obvious error, he should apply to the Head : Health AT ONCE and have same rectified as no liability whatsoever will be admitted by the Administration in respect of errors in Tender due to the foregoing.</p>
<b>2</b>	<p><b>PRICES FOR VARIATIONS</b></p> <p>Where prices or quotations for variations are submitted by the Contractor during the currency of the Contract, it is to be clearly understood that these are for the purpose of consideration by the Head : Health and that there is no assumption of acceptance. The Contractor will be notified of acceptance of prices or quotations either by insertion of the amount on the variation order or by written intimation.</p>
<b>3</b>	<p>The scale to which the Drawings are made is only to be made use of when no figured dimensions are given either on the Drawings or in the tender documents and the figured dimensions are always to be followed though they may not coincide with the scale of the Drawings, but dimensions where possible are to be taken from the buildings.</p>

4	<p><b>PROVISIONAL ITEMS</b></p> <p>All items described as "Provisional" shall be used as directed by the Employer and measured and valued or paid for.</p> <p>No work for which "Provisional" items are allowed shall be commenced without written instructions from the Head : Health.</p>
5	<p><b>TIMELY ORDERING OF MATERIALS</b></p> <p>The Contractor is warned to place all orders for materials or special articles as early as possible, as he will be held solely responsible for any delay in the delivery of such goods.</p> <p>Nevertheless this tender is conditional upon no liability being attached to the Contractor if delivery of materials is rendered impossible by reason of any act of the Government.</p>
6	<p><b>ELECTRICAL LIGHTING, POWER AND WATER REQUIREMENTS</b></p> <p>The Contractor shall provide any artificial lighting which may be necessary or required for the proper execution of the works, and provide electric power and water required by all Sub-Contractors, Nominated Sub-Contractors and Sub-Contractors appointed directly by the Employer.</p> <p>The Contractor shall give all notices and pay all fees in connection with temporary electrical and water connections and shall connect temporary Electrical and Water meters for and pay for all current and water consumed.</p> <p>Tenderers are advised that the permanent light fittings and water points of any kind installed in the Works are not to be used to provide temporary lighting and supplement water requirements for construction purposes.</p>
7	<p><b>IMPORT PERMITS, DUTIES AND SURCHARGES.</b></p> <p>All tenders by means of which imported products are being called for, must use the rate of exchange 14 days prior to the closing date indicated in the tender documents. If this day falls on a weekend or public holiday, the next working day must be used.</p> <p>Furthermore, Tenderers must submit documentary proof (in the form of a certified copy) from their bank or legally recognised financial institution, clearly indicating what the rate of exchange was 14 days prior to the closing date, as mentioned above.</p> <p>Together with this, the Tenderer must confirm that the tender price relating to an imported product, was based on the rate of exchange 14 days prior to the closing date as mentioned above.</p>
8	<p><b>STANDARD SYSTEM OF MEASUREMENT WHERE BILLS OF QUANTITIES FORM PART OF THE TENDER DOCUMENTS</b></p> <p>The work executed under this Contract has been measured in accordance with the;</p> <p style="text-align: center;"><b>Standard System of Measuring Builders Work (7th Edition)</b></p> <p>including all amendments unless descriptions of items indicate a deviation and it shall be understood that the system of measurement which is herein adopted is the only system of measurement which will be recognised in connection with this contract. Any contradictions to this system of measurement contained in the "Model Preambles for Trades 2017" shall be disregarded (unless same have been accommodated in the system of measurement) but applicable rates shall be included for all requirements stated and not measured separately in compliance with this system.</p>

9	<p style="text-align: center;"><b>Other Standard Systems</b></p> <p>Engineering works have been measured in a combination of SANS1200 and other non-standard systems of measurement.</p> <p><b>PRICING OF ROCK EXCAVATIONS</b></p> <p>It is a condition of this tender that should the tenderer elect to price the Rock Excavation included in this tender, the rates must be market related and should be identically priced for the same classification of excavations and not vary for similar billed items in the different sections.</p>				
10	<p><b>REGISTRATION ON THE CENTRAL SUPPLIERS DATABASE</b></p> <ol style="list-style-type: none"> <li>In terms of the Public Finance Management Act (PFMA), 1999 (Act No 1 of 1999) Section 38 (1) (a) (iii) and 51 (1) (iii) and Section 76 (4) of PFMA National Treasury developed a single platform, The Central Supplier Database (CSD) for the registration of prospective suppliers including the varification functionality of key supplier information.</li> <li>Prospective suppliers will be able to self - register on the CSD website: <a href="http://www.csd.gov.za">www.csd.gov.za</a></li> <li>Once the supplier information has been varified with external data sources by National Treasury a unique supplier number and security code will be allocated and communicated to the supplier. Suppliers will be required to keep their data updated regularly and should confirm at least once a year that their data is still current and updated.</li> <li>Suppliers can provide their CSD supplier number and unique security code to organs of state to view their varified CSD information.</li> <li>Tenderers are required to fill in clearly, legibly, in bold print and black ink their CSD supplier number in the space hereunder:</li> </ol> <table border="1"> <tr> <td><b>Name of Supplier</b></td> <td></td> </tr> <tr> <td><b>Central Supplier Database (CSD) Supplier Number:</b></td> <td></td> </tr> </table>	<b>Name of Supplier</b>		<b>Central Supplier Database (CSD) Supplier Number:</b>	
<b>Name of Supplier</b>					
<b>Central Supplier Database (CSD) Supplier Number:</b>					
12	<p><b>TAX CLEARANCE REQUIREMENTS</b></p> <p><b>It is a condition of tender that the taxes of the successful tenderer must be in order, or that satisfactory arrangements have been made with South African Revenue Service (SARS) to meet the Tenderder’s tax obligations. It is a condition of this Offer of Commission that your practice remains in good standing with SARS (South African Revenue Services) in terms of its tax clearance, during the project, which is required to process your payment certificates.</b></p> <ol style="list-style-type: none"> <li>In order to meet this requirement tenderers are required to apply via e-filing at any SARS branch office nationally. The Tax Compliance Status (TCS) requirements are also applicable to foreign Tenderders / individuals who wish to submit Tenders.</li> <li>SARS will then furnish the Tenderder with a Tax Compliance Status (TCS) PIN that will be valid for a period of 1 (one) year from the date of approval.</li> </ol>				

	<p>3 In tenders where Consortia / Joint Ventures / Sub-contractors are involved, each party must submit a separate Tax Compliance Status (TCS) PIN.</p> <p>4 Application for Tax Compliance Status (TCS) PIN can be done via e-filing at any SARS branch office nationally or on the website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</p> <p>5 Tax Clearance Certificates may be printed via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</p> <p>6 Tax Clearance Certificates may be printed via eFiling. In order to use this provision, taxpayers will need to register with SARS as eFilers through the website <a href="http://www.sars.gov.za">www.sars.gov.za</a>.</p>		
	<table border="1"> <tr> <td><b>Security PIN Number</b></td> <td></td> </tr> </table>	<b>Security PIN Number</b>	
<b>Security PIN Number</b>			
	<table border="1"> <tr> <td><b>Company / Entity Tax Reference Number</b></td> <td></td> </tr> </table>	<b>Company / Entity Tax Reference Number</b>	
<b>Company / Entity Tax Reference Number</b>			
<p><b>13</b></p> <p><b>14</b></p> <p><b>15</b></p>	<p><b>BILLS OF QUANTITIES</b></p> <p>The Bills of Quantities document forms part of and must be read and priced in conjunction with all the other documents forming part of the contract documents, the Standard Conditions of Tender, Conditions of Contract, Standard Preambles to all Trades, Specifications, Drawings and all other relevant documentation.</p> <p><b>VALUE ADDED TAX</b></p> <p>The tender price must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the Bills of Quantities must however be net (exclusive of VAT) with VAT calculated and added to the Total Value thereof in the Final Summary.</p> <p><b>FIXED PRICE CONTRACT</b></p> <p>Should the Bills of Quantities/Lump Sum Document be a fixed price contract, the following clause must be inserted in the Pricing Instructions:</p> <p>Tenderders are to take note that the contract price adjustments are not applicable to this contract. Tenderders should therefore make provision in the Contract Sum, schedule of rates, etc. for possible price increases during the contract period, as no claims in this regard shall be entertained.</p>		



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO  
STORAGE AREA**

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**C2.2 - Preliminaries for GCC for Construction works - 2nd Edition  
2010**

<b>LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA</b>					
<b>BILL NO. 1</b>					
<b>C2 .2 PRELIMINARY AND GENERAL</b>					
	<b>NOTES</b>	<b>UNIT</b>	<b>QUANTITY</b>	<b>RATE</b>	<b>AMOUNT</b>
	<p>i) The agreement is to be the General Conditions of Contract for Works of Civil Engineering Construction (2010) (Second Edition) , published by the S. A. Institution Of Civil Engineering.</p> <p>ii) The Preliminaries are to be the Construction and management requirements for works contracts - Part 1: General engineering and construction works (SANS 1921-1: 2004 Edition 1) prepared by Standards South Africa and shall be deemed to be incorporated herein.</p> <p>iii) Tenderers are referred to the abovementioned documents for the full intent and meaning of each clause thereof (hereinafter referred to by heading and clause number only) for which such allowance must be made as may be considered necessary.</p> <p>iv) Where standard clauses or alternatives are not entirely applicable to this contract such modifications, corrections or supplements as will apply are given under each relevant clause heading.</p> <p>v) Where any item is not relevant to this specific contract such item is marked N/A (signifying "not applicable").</p> <p>vi) Adjustment of the preliminaries: each item priced, is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount in proportion to time.</p> <p>vii) Time (T) related Preliminaries will only be adjusted for omissions or additions, issued by the Employer, or delays caused by the Employer, for which variation and extension of time has been granted. <b>See Contract Data .</b></p> <p><b>SECTION A: GENERAL CONDITIONS OF CONTRACT</b></p> <p><b>A1</b> General (clause 1) F:..... V:..... T:.....</p> <p><b>A2</b> Basis of Contract (clause 2) F:..... V:..... T:.....</p> <p><b>A3</b> Engineer (clause 3) F:..... V:..... T:.....</p> <p><b>A4</b> Contractor's General Obligation (clause 4) F:..... V:..... T:.....</p> <p><b>A5</b> Time and Related Matters (clause 5) - As referred to in the Contract Data under Special Condition of Contract. F:..... V:..... T:.....</p>				
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
<b>A6</b>	Payment and Related Matters (clause 6) F:..... V:..... T:.....	Item			
<b>A7</b>	Quality and Related Matters (clause 7) F:..... V:..... T:.....	Item			
<b>A8</b>	Risk and Related Matters (clause 8) F:..... V:..... T:.....	Item			
<b>A9</b>	Termination of Contract (clause 9) F:..... V:..... T:.....	Item			
<b>A10</b>	Claims and Disputes (clause 10) F:..... V:..... T:.....	Item			
<p><b>SECTION B: SANS 1921-1:2004 (Edition 1): CONSTRUCTION AND MANAGEMENT REQUIREMENTS FOR WORKS CONTRACTS: PART 1</b></p> <p>Refer to the SCOPE OF WORK for detail requirements:</p>					
B1	Scope F:..... V:..... T:.....	Item			
B2	Normative references F:..... V:..... T:.....	Item			
B3	Definitions F:..... V:..... T:.....	Item			
B4	Requirements for construction and management F:..... V:..... T:.....	Item			
B4.1	General F:..... V:..... T:.....	Item			
B4.2	Responsibilities for design and construction F:..... V:..... T:.....	Item			
B4.3	Planning, programme and method statements F:..... V:..... T:.....	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
B4.4	Quality assurance F:..... V:..... T:.....	Item			
B4.5	Setting out F:..... V:..... T:.....	Item			
B4.6	Management and disposal of water F:..... V:..... T:.....	Item			
B4.7	Blasting F:..... V:..... T:.....	Item			
B4.8	Works adjacent to services and structures F:..... V:..... T:.....	Item			
B4.9	Management of the Works and site F:..... V:..... T:.....	Item			
B4.10	Earthworks F:..... V:..... T:.....	Item			
B4.11	Testing F:..... V:..... T:.....	Item			
B4.12	Materials, samples and fabrication drawings F:..... V:..... T:.....	Item			
B4.13	Equipment F:..... V:..... T:.....	Item			
B4.14	Site establishment F:..... V:..... T:.....	Item			
B4.15	Survey control F:..... V:..... T:.....	Item			
B4.16	Temporary works F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
B4.17	Existing services F:..... V:..... T:.....	Item			
B4.18	Health and safety F:..... V:..... T:.....	Item			
B4.19	Environmental requirements F:..... V:..... T:.....	Item			
B4.20	Alterations, additions, extensions and modifications to existing works F:..... V:..... T:.....	Item			
B4.21	Inspection of adjoining structures, services, buildings and property F:..... V:..... T:.....	Item			
B4.22	Attendance on nominated and selected subcontractors F:..... V:..... T:.....	Item			
<b>SECTION C: SCOPE OF WORK in accordance with SANS 10403</b> <i>(The reference to Clauses refer to Table B.1 of SANS 1921-1:2004)</i>					
C1	Certification by recognised bodies - CLAUSE 4.4 F:..... V:..... T:.....	Item			
C2	Agrément certificates - CLAUSE 4.5 F:..... V:..... T:.....	N/A			
C3	Other services and facilities - CLAUSE 4.8 F:..... V:..... T:.....	Item			
C4	Recording of weather - CLAUSE 5.2 F:..... V:..... T:.....	Item			
C5	Management meetings - CLAUSE 5.3 F:..... V:..... T:.....	Item			
C6	Daily records CLAUSE 5.6 F:..... V:..... T:.....	Item			
C7	Bond and guarantees - CLAUSE 5.7 F:..... V:..... T:.....	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
C8	Permits - CLAUSE 5.9 F:..... V:..... T:.....	Item			
C9	Proof of compliance with the law - CLAUSE 5.10 F:..... V:..... T:.....	Item			
<b>SECTION D: SPECIFICATION DATA ASSOCIATED WITH SANS 1921-1:2004 (Table A.1)</b>					
D1	Requirements for drawings, information and calculations for which the contractor is responsible CLAUSE 4.1.7 F:..... V:..... T:.....	Item			
D2	The responsibility strategy assigned to the contractor for the works CLAUSE 4.2.1 F:..... V:..... T:.....	Item			
D3	The planning, programme and method statements - CLAUSE 4.3 F:..... V:..... T:.....	Item			
D4	Samples of materials, workmanship and finishes - CLAUSE 4.12.1 F:..... V:..... T:.....	Item			
D5	Fabrication drawings that the contractor is to provide and deliver to the employer - CLAUSE 4.12.2 F:..... V:..... T:.....	Item			
D6	Office for the foreman CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D7	Telephone - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D8	Office for inspector of works - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D9	Telephone in office for inspector of works - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
D10	Sheds - CLAUSE 4.14.3 F:..... V:..... T:.....	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
D11	Provision and erection of signboards - CLAUSE 4.14.6 F:..... V:..... T:.....	Item			
D12	Termination, diversion or maintenance of existing services - CLAUSE 4.17.1 F:..... V:..... T:.....	Item			
D13	Services which are known to exist - CLAUSE 4.17.3 F:..... V:..... T:.....	Item			
D14	Detection apparatus - CLAUSE 4.17.4 F:..... V:..... T:.....	Item			
D15	Additional health and safety requirements - CLAUSE 4.18 F:..... V:..... T:.....	Item			
<b>SECTION E: SPECIFIC PRELIMINARIES</b>					
<u>Section E contains Specific Preliminary items which apply to this contract except where "N/A" (Not Applicable) appears against the item.</u>					
E1	<b>PROPRIETARY BRANDED PRODUCTS</b>  The contractor shall take delivery of, handle, store, use apply and/or fix all proprietary branded products in strict accordance with the manufacturers' instruction after consultation with the manufacturer's authorised representative.  F:..... V:..... T:.....	Item			
E2	<b>OVERTIME</b>  Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the Contractor unless the Engineer/Principal Agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the Employer.  F:..... V:..... T:.....	Item			
E3	<b>AS BUILT DRAWINGS</b>  The position of construction breaks and the extent of individual concrete pours are to be recorded by the Contractor on the Structural Engineer's drawings and are to be submitted to the Engineer/Principal Agent and the Structural Engineer for their records.  F:..... V:..... T:.....	Item			
Carried forward to collection				R	

<b>SECTION E: SPECIFIC PRELIMINARIES</b>		UNIT	QUANTITY	RATE	AMOUNT
E4	<p><b>SITE INSTRUCTIONS</b></p> <p>Site Instructions issued on site are to be recorded in triplicate in a Site Instruction book which is to be maintained on site by the Contractor.</p> <p>F:..... V:..... T:.....</p>	Item			
E5	<p><b>LABOUR RECORD</b></p> <p>At the end of each week the Contractor shall provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day.</p> <p>F:..... V:..... T:.....</p> <p><i>Note: In the event that the contractor fails to satisfy the requirements of this specification, the Employer (Head: Health) may apply any of the sanctions provided in the contract. Sanctions may include the application of a financial penalty of 0.04% of the Contract Sum per calendar day of which the required report has not been submitted.</i></p>	Item			
E6	<p><b>PLANT RECORD</b></p> <p>At the end of each week the Contractor shall provide the Engineer/Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.</p> <p>F:..... V:..... T:.....</p>	Item			
E7	<p><b>NON CESSION OF MONIES</b></p> <p>The Contractor shall not cede nor assign his rights or claims to any monies due or to become due under this contract.</p> <p>F:..... V:..... T:.....</p>	Item			
E8	<p><b>SECTIONAL COMPLETION</b></p> <p>When it is required that the contract be executed in sections or portions, the tenderer shall allow for all costs in this regard as no claim for additional costs will be entertained.</p> <p>F:..... V:..... T:.....</p>	Item			
E9	<p><b>LOCAL LABOUR</b></p> <p>It is a general requirement of this contract that persons normally resident in the locality of the works (Local Labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate Labour not be available within the locality, others may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ Local Labour. The Contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilization of Local Labour in the construction process. In this regard, the Contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The Contractor shall, in general, maximize the involvement of the local community.</p> <p>F:..... V:..... T:.....</p>	Item			
Carried forward to collection				R	

		UNIT	QUANTITY	RATE	AMOUNT
E10	<p><b>IMPORT PERMITS AND DUTIES</b></p> <p>The responsibility for obtaining the necessary import permits shall rest with the successful Tenderer. No foreign exchange will be arranged or provided by the Administration.</p> <p>Tenderers are to allow in their tenders and pay the ordinary levy imposed on imported items in terms of item 196.10 of Part 8 of Schedule No. 1 of the Customs and Excise Act, 1964 with effect from 1 October 1989.</p> <p>F:..... V:..... T:.....</p>	Item			
E11	<p><b>CONTRACT PRICE ADJUSTMENT PROVISIONS (CPAP)</b></p> <p>Notwithstanding anything to the contrary contained in the GCC for Construction Works 2010 2nd Edition, this Contract is not subject to any Contract Price Adjustment Provisions (CPAP)</p>				
E12	<p><b>EPWP CONDITIONS AND SPECIFICATIONS</b></p> <p><b>12.1 EMPLOYMENT TARGETS</b></p> <p><u>E12.1 a Employment Targets</u></p> <p>The contractor needs to provide a realistic estimate on the number of jobs that the project has the potential to create throughout the project duration as the project will be implemented using labour intensive construction methods on elements where it is economical and feasible for this construction method.</p> <p>No of jobs to be created = ..... [Contractor to fill in an estimated number]</p> <p>F:..... V:..... T:.....</p> <p><u>E12.1 b Employment requirements</u></p> <p>Tenderers are advised that this contract will be subject to the Expanded Public Works Program (EPWP) aimed at alleviating and reducing unemployment.</p> <p>Tenderers must allow for any costs for the employment of unskilled labour as per the requirements of the EPWP program;</p> <ol style="list-style-type: none"> <li>1. 55% of unskilled labour to be women</li> <li>2. 55% of unskilled labour to be youth aged between 18 and 35 years</li> <li>3. 2% of unskilled labour to be people living with disability</li> <li>4. 100% Unskilled labour utilised must reside within the boundries of the Municipality Ward where this contract is executed, with preference to the local community closest or at the walking distance to the contract site. Wherever possible local skilled tradesmen are to be employed on this contract with the view to maximize utilization of local resources.</li> </ol> <p>F:..... V:..... T:.....</p>	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
	<p><b>E12.1 c Labour rate and payment intervals</b></p> <p>The contractor should ensure that labour rate paid to unskilled local labour is commensurate to the daily task. When determining the rate, consideration should be given to that EPWP beneficiaries are mostly bread winners in their families, as the program intends alleviating poverty. There should also be consideration that the labour rate promotes creation of expanded number of jobs created and person days of work.</p> <p>Contractors should make endeavours to ensure that labourers, particularly unskilled are remunerated on fortnight basis and prior notification be made should there be a shortfall on their wages.</p> <p>The labour rate for local unskilled shall also be determined in consideration of the location of the project, i.e. for projects implemented in urbanized municipalities will not be the same as that for rural municipalities.</p> <p>F:..... V:..... T:.....</p>	Item			
	<p><b>12.2 LABOUR INTENSIVE CONSTRUCTION METHOD</b></p> <p><b>E12.2 a Labour Intensive Construction (LIC) method</b></p> <p>On site there must a person(s) having competency in managing and implementing LIC methods.</p> <p>*Foreman @ NQF Level 4 the Unit Standard on Implementing LIC methods on site.</p> <p>*Site Agent/ Managers @ NQF level 5 the Unit Standard on Manage Labour-Intensive Skills Programme both must be CETA accredited</p> <p>F:..... V:..... T:.....</p>	Item			
	<p><b>E12.2 b Labour Intensive Construction Method</b></p> <p>Those parts of the contract to be constructed using Labour Intensive methods will be marked in the BoQ with letter LI (indicating Labour Intensive) against every item so designated. Such works will only be constructed using method so indicated.</p> <p>Reference to be made to Guidelines for the implementation of Labour Intensive Infrastructure projects under EPWP. "Scope of Work in Respect of Work Relating to the Expanded Public Works Programme (EPWP)"</p> <p>F:..... V:..... T:.....</p>	Item			
	<p><b>E12.3 RECORD KEEPING</b></p> <p>12.3.1 Every employer must keep in the project site office the following minutes of site progress minutes; contractors' monthly site progress reports; accurately recorded attendance register; proof of payment as means to verify authenticity of data in the EPWP Beneficiary form submitted with payment certificates. Copies of submitted EPWP beneficiary data forms should also be kept in the site office.</p> <p>F:..... V:..... T:.....</p> <p>12.3.2 The employer must keep this record for a period of at least three (3) years after the completion of the project in his/her office as the project site office would have been relocated.</p> <p>This should be safely kept for job creation data verifications and periodical audits on projects conducted by National and Provincial Department of Public Works after one (1) or two (2) quarters of submitting captured EPWP Data to the National EPWP coordinating Department.</p> <p>F:..... V:..... T:.....</p>	Item			
	Carried forward to collection			R	

	UNIT	QUANTITY	RATE	AMOUNT
<p><b>E12.4 EPWP REPORTING as per EPWP DATA FORM</b></p> <p>At the end of each month as part of site progress report and to be attached to every contractors' progress payment certificate; the contractor shall provide the principal agent &amp; Public Works with a written records, as per EPWP data form; which will be reflecting, beneficiaries full name &amp; surname; ID No and job description of labour employed by main contractor and sub-contractors on site. At the end of each month the contractor must submit the following documents to be attached to the Progress payment certificate:</p> <ol style="list-style-type: none"> <li>1. EPWP monthly data collection form</li> <li>2. Worker monthly payment upload</li> <li>3. Worker monthly proof of payment i.e               <ol style="list-style-type: none"> <li>3.1 Acknowledgement of receipt of payment or</li> <li>3.2 Payslips</li> <li>3.3 Bank statement highlighted the workers paid</li> </ol> </li> <li>4. Worker monthly training form</li> <li>5. Monthly attendance register</li> <li>6. Certified copies of ID's (once off)</li> <li>7. ID size photos (once off)</li> <li>8. Proof of UIF</li> <li>9. Proof of COIDA</li> </ol> <p>F:..... V:..... T:.....</p>	Item			
<p><b>E12.5 EPWP PROMOTION</b></p> <p><u>12.5.1 EPWP signage board</u></p> <p>EPWP Program at the project level shall always be promoted through have the projects signage board that embrace EPWP logo at the bottom, correct measurement for this signage board will be provided by the project leader during the site handing over meeting. the standard "HELVETIVA MEDUIM " letters are to be used . Professional title to be 10 mm above line . Line thickness to be 8 mm thick . Space between bottom of the line and bottom of the lettering below the line has to be 100 mm. Letter sizes are as follows : Helvetica meduim 100 mm black upper case to be for project name and owner . Helvetica meduim 75mm black upper case only to be used for professional titles.Project name and owner shall be black lettering on white background.board sizes are as follows : Board to be minomum 2000mm from ground level and to be constructed from reinforced formed chromadek panels minimum 0,6mm thick chromadek. The contractor is responsible for ensuring that the project board remains neatly and safely erected for the full duration including maintenance period,after which the project board and post are to be dismantled and handed to the client in good order.</p> <p>F:..... V:..... T:.....</p>	Item			
<p><u>12.5.2 Branding of labour appare!</u></p> <p>Contractor &amp; Sub-contractors' labourers shall be provided with EPWP branded Personal Protective Equipment (PPE), reflector vest with EPWP wording at the back is an ideal and cost effective means of promoting program on site.</p> <p>The contractor is then advised to price for both item 17.5.1 and 17.5.2</p> <p>F:..... V:..... T:.....</p>	Item			
Carried forward to collection			R	

	UNIT	QUANTITY	RATE	AMOUNT
<p><b>E12.6 COMMUNITY LIAISON OFFICER (CLO)</b> <b>UTILISATION OF A COMMUNITY LIAISON OFFICER</b></p> <p>In addition to the requirements of Clause E9, contained in this document; The Contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract</p> <p>In the interest of providing a sound service to both the community and the Contractor, a CLO may only manage one project at a given time.</p> <p>A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The Contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.</p> <p><b>Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:</b></p> <ol style="list-style-type: none"> <li>1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by contractor.</li> <li>2. Assisting in sourcing labour-only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor.</li> <li>3. Assisting the contractor by identifying areas of potential conflict and or threats to the project or to stakeholders in the project and recommend appropriate action to the contractor.</li> <li>4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise.</li> <li>5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained.</li> <li>6. Establish and ensuring that efficient and open communication channels between the contractor and the community are maintained</li> <li>7. Identifying and reporting to the Contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications</li> </ol>				
	Carried forward to collection		R	

		UNIT	QUANTITY	RATE	AMOUNT
	<p>8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the Contractor regarding the grievances and solution thereto.</p> <p>9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.</p> <p>10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.</p> <p>Tenderers are to price twice the rate of unskilled local labour rate against this item for any and all costs arising out of compliance with the foregoing and in the event of a Tenderer failing to price against this item or making inadequate financial provision against this item for compliance as aforesaid, then no claim for costs or additional cost incurred will be entertained by the Head: Works</p> <p>F:..... V:..... T:.....</p> <p><b>E12.7 SKILLS DEVELOPMENT ON SITE</b></p> <p>Contractor in conforming to the object of EPWP that its beneficiaries need to be capacitated with skills that will render them employable in the future. It is then the responsibility of the Contractor that mandatory life skills are provided to 100% of workforce on site and on the job training to labourers from whom the potential for further development has been identified. The latter is not mandatory to all as it covers technical skills.</p> <p>Contractor should also make provision for the possibility that there might be local youth that will need to be placed on the project with an intention to be provided support towards improving their level of competency and productivity.</p> <p>Contractor shall also provide all necessary on-the-job training to targeted labour to enable such labour to master and advance on techniques required to undertake the work in accordance with requirements of the contract in a manner that does not compromise workers health and safety.</p> <p>F:..... V:..... T:.....</p> <p><b>E12.8 LABOUR ONLY Sub Contracting for local emerging enterprises</b></p> <p>Tenderer's are advised that this contract is subject to the Expanded Public Works Programme (EPWP) and the following criteria will apply:</p> <p><u>African Equity Ownership</u></p> <p>a) The Tenderer is to allow for 5% of the total value of works to be undertaken by a Priority Population Group. This percentage excludes the costs of employing local unskilled labour. The allocation of this percentage from the Project, the screening of people, the selection of skills, will be for the Contractor to adjudicate.</p> <p>b) The Priority Population Group consists of women, youth and disabled people.</p> <p>c) The Contractor is to give first option for prospective PPG's from the surrounding areas of the Project. Should there be insufficient suitable people fitting the criteria of PPG's, the Contractor may hire people from further afield. This is to be done only after consultation with the Department of Works EPWP Co-ordinator and the Community Liaison Officer (CLO).</p> <p>d) A Mentor is to be employed by the Contractor, in consultation with the Department of Works for the purposes of quality control and liaison between the Contractor and the selected PPG's on site. The mentor will be responsible for ensuring an acceptable level of quality workmanship and that such work carried out by the PPG's is executed within the time frames stipulated.</p> <p>In so far as possible, the Contractor is encouraged to expand the PPG's skills, knowledge and performance levels.</p> <p>F:..... V:..... T:.....</p>	Item			
		Item			
		Item			
	Carried forward to collection				



		UNIT	QUANTITY	RATE	AMOUNT
	<p><b>E12.10 EPWP SCOPE of WORK</b></p> <p><b>Note:</b> Contractors are to price any item on the Bill of Quantities having below, bearing in mind that they are regarded as main sources of job creation, whether sub contracted or undertaken by the main contractor.</p> <p>Elements on the scope of work where application of Labour Intensive Construction methods as will indicated with letters (LI) are regarded feasible are as follows;</p> <p>i) Excavating trenches for foundations and any other civil works with the depth not more than 1.5 m</p> <p>ii) All masonry works which include concrete mixing on site; brickwork; plastering; screed works; jointing; etc.</p> <p>iii) Painting, Plumbing, Ironmongery; roof cladding; glazing; tiling; carpentry; flooring; waterproofing; etc.</p> <p>F:..... V:..... T:.....</p> <p><b>Note:</b> It is a general requirement of this contract that persons normally resident in the ward of the works (local labour) be given preference for employment on the contract. Provided, however, that should adequate and appropriate labour not be available within the ward, others may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ local labour (Local Sub-contractor(s); Skilled; Semi-Skilled and Unskilled). The contractor shall in consultation with the local community leaders with the purpose of negotiating with them regarding the utilization of local resources in the construction process. In this regard, the contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth as well as families declared as most indigent by War on Poverty/ Sukuma Sakhe program profiling process. The contractor should aim, in general, to maximise the involvement of the local community, however workers from other communities should not exceed 20% of all persons working on the project, where local employees possess skills at level of competency that meet contractors requirements.</p> <p><u>Payment for the labour-intensive component of the works</u> Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.</p> <p><u>Linkage of payment for labour-intensive component of works to submission of project data</u> The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the employer. If the contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The contractor's invoices shall not be paid until all pending labour information has been submitted.</p> <p><u>Applicable labour laws</u> The current Ministerial Determination (also downloadable at <a href="http://www.epwp.gov.za">www.epwp.gov.za</a>) Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice , shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled or semi-skilled workers.</p> <p>F:..... V:..... T:.....</p>	Item			
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		UNIT	QUANTITY	RATE	AMOUNT
E13	<b>HIV/AIDS AWARENESS</b> Tenderers are to price against the following items for compliance with the SPECIFICATION FOR HIV/AIDS AWARENESS bound into this document (The clauses referred to are those of the Specification for HIV/AIDS)				
E13.1	Provide and maintain a condom dispenser in terms of Clause 5.1a)  F:..... V:..... T:.....	Item			
E13.2	Provide and maintain HIV/AIDS awareness posters terms of Clause 5.1b)  F:..... V:..... T:.....	Item			
E13.3	HIV /Aids Awareness Programme on Site for not less than 90% of workers inclusive of all direct and indirect costs; Engage a qualified service provider as described in the scope of works to conduct an HIV Awareness Programme in terms of Clause 5.2.1a)  F:..... V:..... T:.....	Item			
E13.4	Arrange for workers to attend the HIV Awareness Programme in terms of Clause 5.2.1b)  F:..... V:..... T:.....	Item			
E13.5	<b>Reporting</b> Prepare and attach to claims for payment a brief report in terms of Clause 5.3 (see also HIV/STI Compliance Report included with this document).  F:..... V:..... T:..... <i>Note: In the event that the contractor fails to satisfy the requirements of this specification, the employer (Head: Health) may apply any of the sanctions provided for in the contract. Sanctions may include the application of a financial penalty of 0.04% of the Contract Sum per calendar day of which the required reports has not been submitted.</i>	Item			
E14	<b>OCCUPATIONAL HEALTH AND SAFETY ACT NO. 85 OF 1993</b> Tenderers are to allow for costs in providing a project specific ' Construction Phase Safety, Health and Environmental Plan' in accordance with "Section 2 - Specification Data associated with SANS 1921-1:2004" clause C4.18 in "Part C3 - Scope of Work"  F:..... V:..... T:.....	Item			
E15	<b>NOTICE BOARD, SITE OFFICE, ETC.</b> Bidders are to allow for the provision and removal of a project notice board and a site office in accordance with the Principal Agent's requirements.  F:..... V:..... T:.....	Item			
E16	<b>IMPORTED MATERIALS AND EQUIPMENT</b> Where imported items are listed in the tender documents, the tenderer shall provide all information called for, failing which the price of any such item, material or equipment shall be excluded from currency fluctuations. ( <b>Refer to T2.14 - Schedule of Imported Materials and Equipment .</b> )  F:..... V:..... T:.....	Item			
E17	<b>CONTRACT DOCUMENTS</b> The drawings issues with these Bid documents do not comprise the complete set but serves as a guide only for Biding purposes and for indicating the scope of works to enable the Bidder to acquaint him with the nature and extent of the works and the manner in which they are to be executed.  Should any part of the drawings not be clearly legible to the Bidder he shall, before submitting his Bid, obtain clarification in writing from the principal agent.  F:..... V:..... T:.....	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E18	<p><b>GENERAL PREAMBLES</b></p> <p>The Document Preambles will be the DOH Supplementary Preambles January 2009 Rev.3 and shall be read in conjunction with the Bills of Quantities and be referred to for the full descriptions of work to be done and materials to be used.</p> <p>F:..... V:..... T:.....</p>	Item			
E19	<p><b>TRADE NAMES</b></p> <p>Wherever a Trade Name for any product has been described in the Bills of Quantities the Bidder's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the Principal Agent being obtained prior to the closing date for submission of Bids.</p> <p>F:..... V:..... T:.....</p>	Item			
E20	<p><b>EXISTING PREMISES OCCUPIED</b></p> <p>Refer to Scope of Works Part C3 of this Bid Document for information on the occupation of existing buildings.</p> <p>F:..... V:..... T:.....</p>	Item			
E21	<p><b>INACCURATE AND DEFECTIVE WORK EXECUTED UNDER PREVIOUS CONTRACT</b></p> <p>The contractor shall, after taking possession of the site and before commencing the work, check all levels, liners, profiles and the like and satisfy himself as to the dimensional accuracy of all work executed under the previous contract which may affect his work.</p> <p>Should any inaccurate or defective work be found, the contractor shall immediately notify the principal agent in writing requesting his instructions with regard thereto and afford every facility to those rectifying such inaccurate or defective work.</p> <p>F:..... V:..... T:.....</p>	Item			
E22	<p><b>VIEWING THE SITE IN SECURITY AREAS</b></p> <p>If the site is situated in a security area and the Bidder must arrange with the Authorities to obtain permission to enter the site for Bidding purposes.</p> <p>F:..... V:..... T:.....</p>	Item			
E23	<p><b>COMMENCEMENT OF WORKS IN SECURITY AREAS</b></p> <p>If the works falls within a security area, the contractor must arrange with the Authorities and give the necessary notices before commencement of the works. Should the contractor fail to make such arrangements, admission to the site may be refused and any additional costs will be for the contractor's account.</p> <p>F:..... V:..... T:.....</p>	Item			
E24	<p><b>ENTRANCE PERMITS TO SECURITY AREAS</b></p> <p>If the works fall within a security area, the contractor shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under control of the Authority.</p> <p>F:..... V:..... T:.....</p>	Item			
	Carried forward to collection			R	

		UNIT	QUANTITY	RATE	AMOUNT
E25	<p><b>SECURITY CHECK OF PERSONNEL</b></p> <p>The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, security classified.</p> <p>In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works.</p> <p>F:..... V:..... T:.....</p>	Item			
E26	<p><b>PROHIBITION ON TAKING PHOTOGRAPHS</b></p> <p>In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking photographs, except when authorised thereto by or on behalf of the Minister.</p> <p>The same prohibition is also applicable to all Correctional Institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959.</p> <p>F:..... V:..... T:.....</p>	Item			
E27	<p>Management of Water</p> <p>Water for Construction purposes must be obtained from alternative water sources (i.e. supply other than water that is produced and distributed by a regulated water service authority from a licenced water treatment works for human consumption), eg dams, rivers, boreholes, springs, rainwater harvesting, recycled sewerage water, etc. The alternative water source shall not be of an inferior quality / standard than that required for construction purposes. The client reserves the right through his agents to test such supplies or request certificates confirming the grade and nature of the water supply. Relevant knowledge of the respective area will be an advantage.</p>				
Carried forward to collection				R	

<b>SECTION 1</b>		
<b>SUMMARY – PRELIMINARY &amp; GENERAL</b>		
<b>Collection</b>	<b>Page No.</b>	<b>Amount</b>
	1	R
	2	R
	3	R
	4	R
	5	R
	6	R
	7	R
	8	R
	9	R
	10	R
	11	R
	12	R
	13	R
	14	R
	15	R
	16	R
	17	R
Carried forward to Final Summary		R
Section No. 1 Preliminary & General Summary		



**KWAZULU-NATAL PROVINCE**  
HEALTH  
REPUBLIC OF SOUTH AFRICA

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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE  
AREA**

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**PART C2.3 BILL OF QUANTITIES**

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately ?km to store and handed over to the employer</p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1            Bill No. 1            Alterations</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

**LADYSMITH HOSPITAL  
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<b>Brought Forward</b>			<b>R</b>
<p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> <p><b><u>NEW WORK CHIEFLY INSIDE EXISTING BUILDING(S)</u></b></p> <p><i>New work chiefly inside existing building(s) shall be given in accordance with the principles laid down in the relevant trades</i></p>			
1	Budgetary Allowance for demolitions	Item	150 000.00
<b>Carried Forward</b>			<b>R</b>
Section No. 1 Bill No. 1 Alterations			
<b>Project Code: ZNB 5579/2021-H</b>			

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	Brought Forward		R	
2	Budgetary Allowance to enable continuity of existing operations	Item		650 000.00
<b>Carried Forward to Summary of Section No. 1</b>			R	
Project Code: ZNB 5579/2021-H				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2", in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>				
	<p><b>Carried Forward</b></p> <p>Section No. 1</p> <p>Bill No. 2</p> <p>Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		Brought Forward			R
		<b><u>SITE CLEARANCE</u></b>			
		<u>Site clearance</u>			
1	Digging up and removing rubbish and debris	m2	547		
		<b><u>EXCAVATION &amp; FILLING OTHER THAN BULK</u></b>			
		Ref: Structural Engineer's drawing i0223-STR-001 PAEDIATRIC OUTPATIENT DEPARTMENT FOUNDATION LAYOUT, SECTIONS & DETAILS_Revision B			
		<b><u>EXCAVATIONS</u></b>			
		<u>Digging up topsoil</u>			
2	Digging up topsoil to an average depth of 100mm and preserving for use as filling	m2	547		
		<u>Excavation in compacted fill not exceeding 2m deep</u>			
3	Trenches	m3	202		
4	Holes	m3	54		
		<u>Extra over bulk excavations in earth for excavation in</u>			
5	Soft rock	m3	26		
6	Hard rock	m3	38		
		<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor.	m3	114		
		<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations NE 1,5m deep	m2	461		
		<b>Carried Forward</b>			R
		Section No. 1 Bill No. 2 Earthworks (Provisional)			
		<b>Project Code: ZNB 5579/2021-H</b>			



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		Brought Forward			R
		<b><u>WEEDKILLERS</u></b>			
16	To sides and bottoms of trenches and holes		m2	688	
17	Under floors		m2	318	
		<b><u>TESTS</u></b>			
		<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
18	"Modified AASHTO Density" test		No	50	
		<b>Carried Forward to Summary of Section No. 1</b>			
		Section No. 1			
		Bill No. 2			
		Earthworks (Provisional)			
		<b>Project Code: ZNB 5579/2021-H</b>			
					R

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Item No	Unit	Quantity	Rate	Amount
<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p>				
<p><b><u>BILL NO 3</u></b></p>				
<p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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>				
<p>Formwork to soffits of solid slabs shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>				
<p><b>Carried Forward</b></p>			R	
<p>Section No. 1</p>				
<p>Bill No. 3</p>				
<p>Concrete, Formwork and Reinforcement</p>				
<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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		<b>Brought Forward</b>			R
	Formwork to soffits of slabs, beams shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
	Formwork to sides of bases, pile caps, ground beams 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"				
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<u>Class 15/19mm concrete</u>				
	<u>10MPa concrete</u>				
1	Surface blinding under strip footings	m3	9		
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
	<b><u>Class 15/19mm concrete</u></b>				
	<u>25MPa concrete in:</u>				
2	Strip footings	m3	65		
3	Surface beds	m3	41		
	<b><u>Class 30/19mm concrete</u></b>				
	<u>30MPa concrete in:</u>				
4	Columns in foundations (Provisional)	m3	1		
5	Columns	m3	14		
6	Bases	m3	13		
	<b>Carried Forward</b>				R
	Section No. 1 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>				



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		Brought Forward			R
		<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
		<u>Smooth formwork to sides</u>			
16	Steps	m2	16		
17	C1: 345 x 230mm and C2: 600 x 300mm Rectangular columns in foundations (Provisional)	m2	9		
18	C1: 345 x 230mm and C2: 600 x 300mm Rectangular columns	m2	88		
19	Outer sides of beams	m2	431		
		<u>Smooth formwork to sides and soffits</u>			
20	Slabs and beams	m2	656		
21	Sloping soffits of stairs	m2	18		
		<b><u>MOVEMENT JOINTS</u></b>			
		<u>Saw-cut joints. Cut as soon as concrete has hardened sufficiently to prevent dislodgment of aggregate particles (8 to 24 hours after casting)</u>			
22	3 x 30mm saw-cut joints in top of concrete	m	101		
		<u>Isolation joints between horizontal concrete and vertical surfaces</u>			
23	Between surface bed slab and vertical surfaces	m	264		
		<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
		<u>Mild steel reinforcement to structural concrete work</u>			
24	Varying diameter bars to strip footings	t	11.51		
25	Varying diameter bars to surface bed	t	6.70		
		<b>Carried Forward</b>			R
		Section No. 1			
		Bill No. 3			
		Concrete, Formwork and Reinforcement			
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		Brought Forward		R
26	Varying diameter bars to columns in foundation	t	0.47	
27	Varying diameter bars to columns	t	2.85	
28	Varying diameter bars to slab	t	17.24	
29	Varying diameter bars to beam	t	5.63	
30	Varying diameter bars to stairs	t	1.09	
	<u>Fabric reinforcement</u>			
31	Type 193 fabric reinforcement fixed 30mm from top of concrete surface beds	m2	318	
<b>Carried Forward to Summary of Section No. 1</b>				
Section No. 1				
Bill No. 3				
Concrete, Formwork and Reinforcement				
<b>Project Code: ZNB 5579/2021-H</b>				
				R

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>BRICKWORK</u></b></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>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</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><b><u>BLOCKWORK</u></b></p> <p><u>Concrete masonry units</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 1</p> <p>Bill No. 4</p> <p>Masonry</p>			R	
	<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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		<b>Brought Forward</b>			<b>R</b>
		<u>Wall ties for blockwork</u>			
		Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other			
		<u>Blockwork</u>			
		Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"			
		Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole			
		<b><u>BRICKWORK</u></b>			
		<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
		<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
1	Half brick walls		m2	68	
2	One brick walls		m2	69	
		<b><u>SUPERSTRUCTURE</u></b>			
		<u>Brickwork of NFP bricks in class II mortar</u>			
3	Half brick walls		m2	471	
4	One brick walls		m2	964	
		<b>Carried Forward</b>			<b>R</b>
		Section No. 1 Bill No. 4 Masonry			
		<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
5	460mm brick walls		m2	54
6	Half brick walls in beamfilling		m2	15
7	One brick walls in beamfilling		m2	23
8	460mm brick walls in beamfilling		m2	5
<b><u>BRICKWORK SUNDRIES</u></b>				
<u>Joint forming material in movement joints</u>				
9	10mm Jointex bitumen impregnated soft board sealed with polysulphide sealant (measured elsewhere) built in vertically between skins.		m	527
<u>2,5mm Galvanised brick reinforcement</u>				
10	75mm Wide reinforcement built in horizontally		m	111
11	115mm Wide reinforcement built in horizontally		m	455
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
12	Lintels in lengths not exceeding 3m		m	174
<b><u>FACE BRICKWORK</u></b>				
<u>222 x 106 x 73mm Facebrick. Corobrick Specialist to match new broickwork to existing</u>				
13	Extra over brickwork for face brickwork		m2	744
14	Extra over for face brickwork in beamfilling		m2	43
<b>Carried Forward to Summary of Section No. 1</b>				R
Section No. 1				
Bill No. 4				
Masonry				
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Item No	<b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 5</u></b>				
	<b><u>WATERPROOFING</u></b>				
	<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				
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>				
	<u>One layer 375 micron embossed polyethylene damp-proof course (SANS 952-1985 type B)</u>				
1	In walls	m2	64		
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
2	Under surface beds	m2	318		
	<u>Primer and two coats of heavy duty bitumen emulsion waterproof coating</u>				
3	On concrete columns in foundations (Provisional)	m2	2		
	<b><u>WATERPROOFING TO ROOFS</u></b>				
	<b>Carried Forward</b> Section No. 1 Bill No. 5 Waterproofing			R	
	<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
	<u>One layer 4mm special polyester fully bonded waterproof membrane comprising a matrix modified with polypropylene dual reinforced with non-woven polyester cloth and glass fibre tissue, laid with 75mm side and 100mm end laps</u>				
4	On sloping roofs with 18 degrees pitch	m2	641		
<b><u>SEALING &amp; JOINT SEALANTS</u></b>					
	<u>Polysulphide sealant</u>				
5	In expansion joints	m	101		
	<u>Approved joint sealant including backing cord, bond breaker strip</u>				
6	10 x 10mm In saw cut joints in floors	m	101		
	<u>10mm Jointex</u>				
7	In isolation joints	m	264		
<b>Carried Forward to Summary of Section No. 1</b>					
Section No. 1					
Bill No. 5					
Waterproofing					
<b>Project Code: ZNB 5579/2021-H</b>					
					R

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b>				
	<b><u>BILL NO 6</u></b>				
	<b><u>ROOF COVERINGS</u></b>				
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<u>Corrugated 10.5 profile chromadek roof sheeting. 0.8mm thick galvanized Z275 steel. Chromadek finish to one side, in single length fixed to timber purlins.</u>				
1	Roof covering with pitches not exceeding 18 degrees	m2	641		
	<b><u>ROOF AND WALL INSULATION</u></b>				
	<u>Two direction foil faced with reinforced scrim in the middle with non-combustible over purlins with galvanised straining wire at 275mm spacing</u>				
2	Insulation sheeting laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires at 275mm spacing	m2	641		
	<u>135mm AluCool insulation between purlin</u>				
3	Insulation blanket laid taut between purlins, including fixing	m2	641		
	<b><u>SHEET METAL FLASHINGS, LININGS, COPINGS,</u></b>				
	<b><u>Aluminium sheet</u></b>				
4	Ridge flashings to roof pitches not exceeding 18 degrees	m	83		
5	Linings to valleys with riveted and soldered joints	m	8		
	<b>Carried Forward to Summary of Section No. 1</b>				
	Section No. 1				
	Bill No. 6				
	Roof coverings				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

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Item No	<b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 7</u></b>				
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<u>Fixing</u>				
	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				
	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				
	<u>Decorative thermosetting plastic laminate covering</u>				
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
	<b><u>TIMBER DOORS &amp; WINDOWS</u></b>				
	<b><u>DOORS</u></b>				
	<u>DP-4: 900 X 2500mm solid timber single doors with glazed fanlight on top hung to steel frames</u>				
1	40mm Door 900 x 2500mm high	No	34		
	<u>DP-6: 1260 (855+395) x 2032 x 40mm solid core timber double swing, one and a half doors, with 250mm 500mm safety glazing viewing panel. hung to steel frames</u>				
2	40mm Door 1350 x 2100mm high	No	1		
	<b>Carried Forward</b> Section No. 1 Bill No. 7 Carpentry and joinery			R	
	<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
	<u>DP-7: 1350 X 2100mm solid core timber double swing, one and a half door, hung to steel frames</u>				
3	40mm Door 1350 x 2100mm high	No		1	
	<u>DP-9: 1350 X 2100mm solid core timber double swing, one and a half doors, hung to steel frames</u>				
4	40mm Door 1350 x 2100mm high	No		3	
<b><u>ROOFS</u></b>					
<b><u>PLATE NAILED TIMBER ROOF TRUSS CONSTRUCTION</u></b>					
	<u>Roof construction of a gable roof with pitch 18 degrees, measuring 641m2 overall with and including 76x50mm purlins @ ±1200mm centres max laid on trusses with spacing 1050 max centres with permanent bracing. 38 X 114mm Sawn wood wall plates, battens and clout nails. According to engineered designs and according to manufacturer's specification</u>				
5	Roof Trusses			Item	
<b><u>EAVES AND VERGES</u></b>					
	<u>12x300mm medium density fibre reinforced cement plain fascia boarding to Comply with SANS 10400 Part L</u>				
6	Fascia Boards	m		170	
<b><u>FIXED FURNITURE</u></b>					
<b><u>SEATING IN WAITING AREA</u></b>					
	<u>DESCRIPTION FROM ARCH</u>				
7	Row comprised of six seats fixed together	Sets		3.0	
		<b>Carried Forward</b>			R
		Section No. 1 Bill No. 7 Carpentry and joinery			
		<b>Project Code: ZNB 5579/2021-H</b>			

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CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

	Brought Forward																																													
<u>RECEPTION DESK</u>																																														
<b>Carried Forward to Summary of Section No. 1</b>						R																																								
Section No. 1					R																																									
Bill No. 7					R																																									
Carpentry and joinery				R																																										
Project Code: ZNB 5579/2021-H				R																																										

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO 8</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></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>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components</u></p> <p>All steel components for ceilings and partitions are to be galvanised in accordance with SANS 121</p> <p><b><u>CEILING TIMBERS, BEADS, INSULATION</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1            Bill No. 8            Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Off-shutter concrete ceiling smooth finish</u></p> <p>To be as per SANS 2001-CC1:2007 table 1. Imperfections, such as small fins, bulges, irregularities, surface honeycombing and slight surface discolourations shall be made good and repaired as per agreed sample panel. Degree Of Accuracy (DOA)</p> <p>1. Degrease / remove all traces of release agent before treated with one coat Dulux Trade Ecosure plaster primer and two coats Dulux Trade 65 matt pva</p> <p><u>Suspended Vinyl Ceiling Tiles</u></p> <p>12.5mm thick white vinyl gypsum tiles on 1200mm x 600mm T38V white ceiling grid including hangers. Laid on pre-painted exposed Tee suspension system including galvanized main tees and cross tees, all strictly in accordance with the manufacturer's instructions.</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><u>Plasterboard Ceilings</u></p> <p>Shall be 6.4mm plain Rhino gypsum plasterboard ceiling with H-profile galvanised steel jointing strips</p> <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, are to be in accordance with the manufacturers' recommendations</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1        Bill No. 8        Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>			R
<p><u>Flush plastered gypsum plasterboard suspended bulkheads</u></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p> <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p><b><u>CEILINGS</u></b></p> <p>Ref: Architect's drawings no. A-103 PAEDIATRIC &amp; PARENTS LODGE - BLOCK A FF CEILING PLAN_Rev A and A-102 PAEDIATRIC &amp; PARENTS LODGE - BLOCK A GF CEILING PLAN_Rev A (Issued for stage 4.1 approval)</p> <p><u>SUSPENDED 600x1200 VINYL CEILING TILES</u>  <u>12.5mm Thick White Vinyl Gypsum Tiles On 1200mm x 600mm T38V White Ceiling Grid, Including Hangers</u></p>			
1	Ceilings suspended not exceeding 1m	m2	312
<p><u>SWARTLAND NUTEC EXTERNAL CEILINGS (Nutec Ceiling Board 4mm 1200 X 3.000mm) Screw up flush suspended ceiling formed of concealed suspension system with galvanised steel angle section hangers and 4mm Nutec fibre cement flush ceiling with joints between boards fitted with H-profile jointing strip.</u></p>			
2	Ceilings suspended not exceeding 1m	m2	6
<b>Carried Forward</b>			R
Section No. 1 Bill No. 8 Ceilings			
<b>Project Code: ZNB 5579/2021-H</b>			

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	<b>Brought Forward</b>			R
	<p><u>1X RHINOBOARD® 9 MM (locally manufactured, ISO 9001 &amp; 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe® D32K Cross Tee (Locally manufactured, recycled content, ISO 9001 &amp; 14001 certification) using Gyproc Sharp-point Screws 25 mm at maximum 150 mm centres.</u>  <u>Gypframe® D37K Main Tee installed at 1200 mm centres and suspended using Gyproc Galvanised Angle 25 mm x 25 mm hangers at 1200 mm centres.</u>  <u>Gypframe® D32K Cross Tee at 400 mm centres.</u>  <u>Hanger to be maximum 400 mm from perimeter wall.</u>  <u>Apply Gyproc RhinoTape® to all joints. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus®/ RhinoLite® CreteStone® (locally manufactured, Greentag Level B).</u>  <u>Install Gypframe® Corner Bead to all external corners.</u>  <u>Gyproc Plaster Trim 9.5 mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non combustibile, lightweight Aerolite insulation material between the roof trusses and over branding/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification with Gyproc 20mm aluminium plaster trim fixed to wall at 300 mm centres.</u></p>			
3	Ceilings suspended not exceeding 1m	m2	425	
	<b>Carried Forward</b>			R
	Section No. 1 Bill No. 8 Ceilings			
	<b>Project Code: ZNB 5579/2021-H</b>			

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	Brought Forward			R
	<p><u>1X RHINOBOARD® MOISTURERESISTANT™ 12.5 MM (locally manufactured, ISO 9001 &amp; 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe® D32K Cross Tee (Locally manufactured, recycled content, ISO 9001 &amp; 14001 certification) using Gyproc Sharp-point Screws 25 mm at maximum 150 mm centres. Gypframe® D37K Main Tee installed at 1200 mm centres and suspended using Gyproc Galvanised Angle 25 mm x 25 mm hangers at 1000 mm centres. Gypframe® D32K Cross Tee at 600 mm centres. Hangers to be maximum 400 mm from perimeter wall. Apply Gyproc RhinoTape® to all joints and internal corners. Install Gypframe® Corner Bead to all external corners. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus® (locally manufactured). Wall Angle - Fix Gyproc Plaster Trim 12.5mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non-combustible, lightweight Aerolite® insulation material between the roof trusses and over bracing/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification with Gyproc 20mm aluminium plaster trim fixed to wall at 300 mm centres</u></p>			
4	Ceilings suspended not exceeding 1m	m2	121	
	<u>Owacoustic "Donn" shadowline cornice</u>			
5	Pre-painted cornices, plugged	m	868	
	<b>Carried Forward to Summary of Section No. 1</b>			R
	Section No. 1 Bill No. 8 Ceilings			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b>				
	<b><u>BILL NO 9</u></b>				
	<b><u>FLOOR COVERINGS &amp; WALL LININGS</u></b>				
	<u>Fixing</u>				
	Floor coverings and wall linings shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring or linings.				
	<b><u>FLOOR COVERINGS</u></b>				
	<u>NEW 2mm THICK POLYFLOR VORGUE ULTRA PUR</u>				
1	On floors	m2	81		
	<u>2mm THK PolyFlor Expona Flow PUR</u>				
2	On floors	m2	27		
	<u>2mm THK PolyFlor 2000 PUR</u>				
3	On floors	m2	659		
	<b><u>SKIRTINGS</u></b>				
	<u>76mm x 19mm selected Red Meranti with 19mm quadrant all finished with Nova Polyurethane Sealer nailed to walls.</u>				
4	On floors	m	7		
	<u>POLYFLOR Set In Cove skirting in 50 x 100mm with 10mm radius. Welding to match vinyl sheet flooring.</u>				
5	On floors	m	816		
	<b>Carried Forward</b>				
	Section No. 1				
	Bill No. 9				
	Floor coverings, wall linings				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	



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Item No	<b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 10</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<u>Proprietary items</u>				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	<b><u>LOCKS</u></b>				
	<u>Keys</u>				
	Unless otherwise described locks shall have two keys each				
	<b><u>In accordance with Door Schedule</u></b>				
1	Cylinder lock, dead lock to one side	No	43		
	<b><u>HANDLES</u></b>				
	<b><u>In accordance with Door Schedule</u></b>				
2	2 pairs of pull handles	No	6		
	<b>Carried Forward</b> Section No. 1 Bill No. 10 Ironmongery			R	
	<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
3	Approved lever handles		No	39	
<b><u>CLADDING</u></b>					
<b><u>In accordance with architect's specification</u></b>					
4	<u>900mm high Grade 304 stainless steel cladding</u>		No	1	
5	<u>Kick plates, push plates and corner protector</u>		No	4	
<b><u>DOOR CLOSERS</u></b>					
<b><u>In accordance with Door Schedule</u></b>					
6	One pair double action transom closer with shoe strap		No	9	
7	Wall mounted stop		No	37	
8	Foot operated door holder		No	1	
<b><u>SUNDRIES</u></b>					
<b><u>In accordance with Door Schedule</u></b>					
9	90 degrees hold open door closer on inside		No	9	
<b><u>RAILS</u></b>					
<u>Side grab rail</u>					
10	Bathroom butler paraplegic rails dog leg grab rail with 3 supports or similar approved with brushed grade 304 stainless steel finish, overall size 750 x 750mm plugged and screwed to wall with stainless steel screws.		No	2	
		<b>Carried Forward</b>			R
		Section No. 1 Bill No. 10 Ironmongery			
<b>Project Code: ZNB 5579/2021-H</b>					

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		Brought Forward			R
	<u>Back grab rail</u>				
11	Bathroom butler paraplegic rail or similar approved with brushed grade 304 stainless steel finish, overall size 842mm long, plugged and screwed to wall with stainless steel screws.		No	2	
	<u>Curtain Rails and Curtains</u>				
12	Curtains to be used, 100% Fireproof Solid colour Hospital Curtain Fabric to Client's choice and Specifications. <b>CURTAIN RAIL</b> - Trinity Satin Steel Extendible Curtain Pole Diameter 16/19mm		Sets	23.0	
	<b><u>HOOKS</u></b>				
	<u>Hat and Coat hooks</u>				
13	Franke bhm 16 p or similar approved polished stainless steel robe hooks, plugged and screwed to the wall with stainless steel screws		No	4	
<b>Carried Forward to Summary of Section No. 1</b>					
Section No. 1					
Bill No. 10					
Ironmongery					
<b>Project Code: ZNB 5579/2021-H</b>					

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO 11</u></b></p> <p><b><u>METALWORK</u></b></p> <p><u>Descriptions of bolts and anchors</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 1            Bill No. 11            Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Aluminium doors and windows</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be safety glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to these bills of quantities</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <ol style="list-style-type: none"> <li>1. A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</li> <li>2. A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</li> </ol>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1        Bill No. 11        Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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		<b>Brought Forward</b>			R
		<u>CREALCO SWIFT 38 extruded aluminium sections to sizes as shown to comply with 'AAAMSA' specifications. All window shopfronts sections to be designed and supplied by manufacturer to sustain wind loads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400 Part N and will remain the responsibility of manufacturer to provide the client with the documents as requested. All structural sections, compensation channels &amp; accessories per manufacturer's design. Colour: Powdercoated - Colour TBC</u>			
5	WP-01 & 02: 1800 x 1234mm high purpose made window	No	57		
6	WP-03: 1266 x 1234mm high purpose made window	No	1		
7	WP-04: 600 x 1234mm high purpose made window	No	11		
8	WP-05: 900 x 605mm high purpose made window	No	3		
		<b><u>ALUMINIUM DOORS</u></b>			
9	Type DP-3: 1510 x 2100mm Chubb door	No	1		
		<u>Glazed aluminium shopfront doors as per door Schedule, complete with subframes, ironmongery, glass, sealing and fixing to brickwork or concrete</u>			
10	Type DP-1: 1800 x 2500mm high purpose made double door	No	3		
11	Type DP-2: 1800 x 2100mm high purpose made double door	No	3		
12	Type DP-3: 1350 x 2100mm high purpose made one and a half door	No	3		
		<u>Solid core timber doors as per door schedule.</u>			
13	Type DP-4 900 x 2500mm high single door	No	34		
14	Type DP-6 1260 x 2032mm double swing, one and a half doors with 250 x 500mm safety glazing viewing panel	No	5		
		<b>Carried Forward</b>			R
		Section No. 1 Bill No. 11 Metalwork			
		<b>Project Code: ZNB 5579/2021-H</b>			

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	Brought Forward			R
15	<p><u>8mm thick Obscure Glass Aluminium doors to Architect's specification</u></p> <p>2032mm height x 900mm width</p> <p><b><u>ALUMINIUM SHOPFRONTS</u></b></p> <p><u>CREALCO SWIFT 38 Extruded Aluminium Sections to sizes as shown to comply with AAMSA specifications. All window shopfronts section to be designed and supplied by manufacturer to sustain windloads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400 PART N and will remain responsibility of manufacturer to provide client with the documents as requested. All structural sections, compensation, channels and accessories per manufacturer's design colour tbc.</u></p>	No	5	
16	WP-01: 2470 x 5313mm Custom-Made aluminium shopfront	No	1	
17	WP-02: 5960 x 2500mm Custom made aluminium shopfront	No	1	
<p><b>Carried Forward to Summary of Section No. 1</b></p> <p>Section No. 1            Bill No. 11            Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>				R

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO 12</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1            Bill No. 12            Plastering</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1        Bill No. 12        Plastering</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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Item No	Unit	Quantity	Rate	Amount
<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p>				
<p><b><u>BILL NO 13</u></b></p>				
<p><b><u>TILING</u></b></p>				
<p><u>Patterns</u></p>				
<p>Unless otherwise described, tiles shall be laid with continuous joints in both directions</p>				
<p><u>Fixing</u></p>				
<p>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</p>				
<p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat</p>				
<p>Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles</p>				
<p>Ref: Architect's drawings; A-600 PROPOSED FINISHES SCHEDULE - BLOCK A GROUND FLOOR_REV B; A-100 PAEDIATRIC &amp; PARENTS LODGE - BLOCK A GROUND FLOOR PLAN_REV A; A.811 &amp; A.811a PAEDIATRIC &amp; PARENTS LODGE: TRIAGE-VITALS ROOM G.F No. 811; A811a PAEDIATRIC &amp; PARENTS LODGE: SLUICE ROOM</p>				
<p><b><u>WALL TILING</u></b></p>				
<p><b>Carried Forward</b>          Section No. 1          Bill No. 13          Tiling</p>				R
<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward			R
	<u>200 x 330 x 7mm Thick Unglazed porcelain tiles with adhesive to screeds including grouting height.</u>				
1	On walls	m2	78		
	<u>200 x 200 x 7mm Thick White Tile splashback tiles.</u>				
2	On walls	m2	77		
<b><u>FLOOR TILING</u></b>					
	<u>Mosaic floor tiles on concrete including approved 20mm thick bedding fixed with epoxy adhesive, grouted with an approved epoxy grouting.</u>				
3	On shower floors	m2	5		
	<u>Aluminium dividing strips</u>				
4	Flat section dividing strips between tiles and other floor coverings	m	380		
<b>Carried Forward to Summary of Section No. 1</b>					
Section No. 1					
Bill No. 13					
Tiling					
<b>Project Code: ZNB 5579/2021-H</b>					
					R

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO 14</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes,are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, and to steel pipes (adaptors for connections to copper pipes,are given separately)</p> <p>Descriptions of WC pans, slop hoppers, shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 1            Bill No. 14            Plumbing and drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>			R
<b><u>RAINWATER DISPOSAL</u></b>			
<u>OGEE 125x75mmx0.6mm Seamless aluminium eaves gutter &amp; 100x75mmx0,6mm Fluted aluminium down pipes with baked enamel finish. sized in accordance with the requirements of 4.3, of Part R SANS 10400</u>			
1	100mm Diameter rainwater pipes	m	75
2	Extra over for roof outlet including M8 Bolt	No	10
3	Extra over for pipe connector to gutter outlet	No	10
4	Extra over single socket bends	No	10
5	Extra over downpipe for shoe	No	10
<b><u>SANITARY FITTINGS</u></b>			
<u>Stainless steel</u>			
6	Franke wall-mounted sluice sink / slop hopper for exposed cisterns	No	2
7	Franke SPECIFICATION MODEL BBR: Franke model BBR Bedpan and Bottle Rack designed to hold plastic and stainless steel bedpans and bottles, Product Code: 2630017, manufactured from grade 304 (18/10) stainless steel 8mm diameter round bars and stainless steel flat bar mounting brackets. Bottle holders to be on the front of the unit to ensure ergonomic function. Unit complete with stainless steel drip tray which can be removed for cleaning and the ends of the bottle rods are fitted with rubber grommets. Unit fixed to wall with 4 off anchor bolts	No	2
<b>Carried Forward</b>			R
Section No. 1 Bill No. 14 Plumbing and drainage			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>				R
8	Sunridge Mounted soap dispenser, Product Code: SR-SOAP-DIS manufactured from Grade 304 stainless steel satin finish. The soap dispenser incorporates a replaceable and refillable sachet into the container to replace when soap liquid is finished. Unit can be mounted to the wall and the cylinder have a lock with a key and supplied with mounting kit for installation. All as per Sunridge sanitary ware or similar approved	No	29	
9	Sunridge Folded Paper Towel Dispenser, Product Code: SR-SENSOR-ROLL manufactured from grade 304 stainless steel satin finish. Hands Free. Has the ability to dispense various paper towel options. The towel dispenser ideal for high traffic restrooms. Unit to be mounted against the wall and supplied with installation kit. Dimensions: 20 x 30 x 30cm. All as per Sunridge sanitary ware or similar approved	No	29	
10	Sunridge Sanitary Bin - Stainless Steel waste bin 20 litre, Product Code: SR-BIN-PED-SS manufactured from Grade 304 with a satin finish place on ground. Plastic bag can be replaced when full. Open top waste bin Dimensions: 49cm x 42cm x 17cm. All as per Sunridge sanitary ware or similar approved	No	29	
11	Sunridge Sanitary Bin - Female wall mounted sanitary towel disposal bin, Product Code: SR-SANT-BIN-S manufactured from Grade 304 stainless steel satin finish. The disposal bin incorporates a plastic container with a capacity of 21 litres for the disposal of sanitary towels and minor wastes. Unit supplied with key and lockable latch for replacing and empty bin. Unit has a piano hinge to lift and close when dispose the waste. All as per Sunridge sanitary ware or similar approved	No	2	
12	Sunridge Wall mounted toilet holder with a spindle rod inside the unit to roll off the paper easy and waste less. Product Code: SR-HD-2ROLL-DISP Manufactured from grade 304 stainless steel satin finish surface. The unit takes only 2 toilet rolls to fill. It has a key and lock on top of the unit to lock and replace paper. Easy to mount to wall and supplied with installation kit included. Satin Finish Stainless Steel All as per Sunridge sanitary ware or similar approved	No	6	
<b>Carried Forward</b>				R
Section No. 1 Bill No. 14 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
13	SUNRIDGE Universal Grab Rail 300mm Stainless Steel Product Code: UGR300 · As per Sunridge sanitary ware or similar approved.	No	2	
14	SUNRIDGE 2 Legged Grab Rail Stainless Steel Product Code: 2LGR · As per Sunridge sanitary ware or similar approved.	No	2	
15	SUNRIDGE Universal Grab Rail 750mm Stainless Steel Product Code: UGR750 · As per Sunridge sanitary ware or similar approved.	No	2	
<u>Wash hand basin according to Sanitary Schedule</u>				
16	Sunridge Product Code: SR-WHB-001B Inclusive of : · BV40B Sink Waste Brevik Brass Cp 40mm. · BVBTR-NUT Brevik Trap Adaptor 32x40mm. · BVBTR Brevik Bottle Trap Round. · BMM60 Borrás Medico Sink Mixer Deck Type Spout. · BMM60W Borrás Medico Wall Type Legs. · DZRBSAV4 Angle Valve Bretten 15x15 Qtr Rnd Handle DZR · All as per Sunridge sanitary ware or similar approved	No	1	
17	Sunridge Lavee Entree EWHB Wall Hung Basin with overflow	No	29	
18	LECICO ATLAS: PARAPLEGIC SUITE AS PER PLUMBLINK COMPLETE WITH :ACCESSORIES AS PER SUPPLIER 5 X 110mm PAN COLLAR & SEAL RIR	No	1	
<u>Wash trough according to Sanitary Schedule</u>				
19	Franke Model EC Combination bedpan & wash-up sink (Right hand) with 1830 x 68mm size Product Code: 2630002.Manufactured from grade 304 (18/10 stainless steel 1.6mm (draining board) and 1,2mm thick (bowls).	No	2	
20	Franke model "S1" Catering Sink (Left hand) with 1200 x 650mm , Product Code:2620016 manufactured from grade 304 stainless steel 1,2mm thick with a 150mm high integral splash back to the rear and 50x10mm turndown with a beaded edge on the remaining sides	No	2	
<b>Carried Forward</b>				R
Section No. 1 Bill No. 14 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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		<b>Brought Forward</b>			R
21	FRANKE Model "S2" Catering Sink double end/centre (please specify) bowl. Product Code:2620025. Size:1850 x 650mm manufactured from grade 304 stainless steel 1,2 mm thick with a 150mm high integral splash back to the rear and 50x10mm turndown with a beaded edge on the remaining sides. Sink with pressed 500x500x230mm deep bowl with a 40mm waste outlet. The underside sprayed with vermin proof bitumastic sound deadening and supported with a 30x30x3mm framework and galvanised mild steel backing sheet. Unit fixed 900mm high from the top of the front apron to the finish floor level with anchor bolts	No	1		
<u>Water closets according to Sanitary Schedule</u>					
22	Sunridge ECCS: Entree Closed Couple Suite Inclusive of : 350DZRBSAV3 Angle Valve Bretten 15x15 Std Valve Rnd Handle DZR and Braid SATAS Jaswic 350mm · E017 SV 110mm Pan Collar & Seal R/R Eurofit · All as per Sunridge sanitary ware or similar approved	No	10		
<b><u>TRAPS</u></b>					
<u>Traps according to Sanitary Schedule</u>					
23	SUNRIDGE Stainless Steel Floor Drain Size: 240 x 240 x with 1 x 50mm Side Inlet Product Code: SR-FD-IIO · As per Sunridge sanitary ware or similar approved.	No	2		
24	BVBTR-H Brevik Bottle trap Round	No	29		
25	BVBTR- NUT Brevik Bottle Trap Adaptor 32 x 40mm	No	30		
26	BV32BS Basin Waste Brevik Slotted Brass Cp 32mm	No	29		
27	BV40B Sink Waste Brevik Brass Cp 40mm.	No	1		
<b><u>TAPS &amp; VALVES</u></b>					
<u>Taps according to Sanitary Schedule</u>					
28	SUNRIDGE Brevik Shower Rose 100mm Single Function.Product Code:BVSRI	No	2		
<b>Carried Forward</b>					R
Section No. 1 Bill No. 14 Plumbing and drainage					
<b>Project Code: ZNB 5579/2021-H</b>					

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		Brought Forward		R
29	DZRBSAV4 Angle Valve Bretten 15x15 Qtr Turn Handle DZR	No	30	
30	350DZRBSAV3 Angle Valve Bretten 15x15 Std Valve Rnd Handle DZR and Braid SATAS Jaswic 350mm	No	6	
31	BMM01 Borrás Medico Basin Pillar tap cold	No	19	
32	BMM01-H Borrás Medico Basin Pillar Tap Hot	No	29	
33	BT01 Borrás Traditional Basin Pillar Tap 15mm	No	10	
34	BMM60 Borrás Medico Sink Mixer Deck Type Spout	No	1	
<u>Valves according to Sanitary Schedule</u>				
35	Walcro 25mm diameter BSP concealed vandal resistant DZR brass toilet flush valve with VR push button and concealed flush pipes	No	3	
<b><u>SOIL DRAINAGE</u></b>				
36	Provision for Soil Drainage		Item	125 000.00
<b><u>AS-BUILT DRAWINGS</u></b>				
37	Provision of as-built drawings		Item	
<b>Carried Forward to Summary of Section No. 1</b>				R
Section No. 1				
Bill No. 14				
Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b></p> <p><b><u>BILL NO 15</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 1            Bill No. 15            Paintwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	







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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately ?km to store and handed over to the employer</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 2            Bill No. 1            Alterations</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>			<b>R</b>
<p>Doors, fanlights, windows, fittings, frames, linings, which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors and windows shall include for removal of all beads, architraves and ironmongery.</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, door closers and cabin hooks.</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings)</p> <p><b><u>NEW WORK CHIEFLY INSIDE EXISTING BUILDING(S)</u></b></p> <p><i>New work chiefly inside existing building(s) shall be given in accordance with the principles laid down in the relevant trades</i></p>			
1	Budgetary allowance for demolitions	Item	150 000.00
2	Budgetary Allowance for Decanting Space	Item	750 000.00
<b>Carried Forward to Summary of Section No. 2</b>			<b>R</b>
Section No. 2 Bill No. 1 Alterations			
<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2", in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>				
	<p><b>Carried Forward</b></p> <p>Section No. 2</p> <p>Bill No. 2</p> <p>Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		Brought Forward			R
		<b><u>EXCAVATION AND FILLING, OTHER THAN BULK</u></b>			
		<b><u>EXCAVATIONS</u></b>			
		<u>Excavation in compacted fill not exceeding 2m deep</u>			
1	Trenches	m3	67		
2	Holes	m3	88		
		<u>Extra over bulk excavations in earth</u>			
3	Soft rock	m3	15		
4	Hard rock	m3	23		
		<u>Extra over all excavations for carting away</u>			
5	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	83		
		<u>Risk of collapse of excavations</u>			
6	Sides of trench and hole excavations not exceeding 1,5m deep	m2	232		
		<u>Keeping excavations free of water</u>			
7	Keeping excavations free of all water other than subterranean water			Item	
		<u>De-watering of seepage water and water from other subterranean sources in excavations</u>			
8	Allow for pumping			Item	
		<b><u>FILLING</u></b>			
		<b>Carried Forward</b>			
		Section No. 2			
		Bill No. 2			
		Earthworks (Provisional)			
		<b>Project Code: ZNB 5579/2021-H</b>			
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		<b>Brought Forward</b>			R
	<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u>				
9	Backfilling to trenches	m3	70		
	<u>Filling of natural gravel material (G5) supplied by the contractor, compacted to 95% Mod AASHTO density</u>				
10	Under surface beds	m3	41		
	<u>Compaction of ground surfaces</u>				
11	Compaction of natural or excavated ground surface under floors including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	359		
<b><u>WEED KILLERS &amp; INSECTICIDES</u></b>					
<b><u>SOIL INSECTICIDES</u></b>					
	<u>Soil insecticide in accordance with SANS 5859</u>				
12	Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	270		
13	To bottoms and sides of trenches	m2	321		
<b><u>WEEDKILLERS</u></b>					
14	To sides and bottoms of trenches and holes	m2	321		
15	Under floors	m2	270		
<b><u>TESTS</u></b>					
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
16	"Modified AASHTO Density" test	No	4		
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 2					
Earthworks (Provisional)					
<b>Project Code: ZNB 5579/2021-H</b>					

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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> <p>Formwork to soffits of solid slabs, shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 2</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		<b>Brought Forward</b>			R
Formwork to sides of bases, pile caps, ground beams, 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"					
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>					
<u>Class 15/19mm concrete</u>					
<u>10MPa concrete</u>					
1	Surface blinding under strip footings	m3	342		
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>					
<b><u>Class 25/19mm concrete</u></b>					
<u>25MPa concrete in:</u>					
2	Strip footings	m3	21		
3	Bases	m3	6		
4	Surface beds	m3	35		
<b><u>Class 30/19mm concrete</u></b>					
<u>30MPa concrete in:</u>					
5	Stub Columns	m3	2		
6	Beams	m3	7		
<b>Carried Forward</b>					R
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>					

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward			R
		<b><u>TEST CUBES</u></b>			
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	22		
		<b><u>CONCRETE SUNDRIES</u></b>			
		<u>Finishing top surfaces of concrete smooth with a power float</u>			
8	Surface beds	m2	270		
		<u>Non-shrink grout</u>			
9	Pro-struct 531-MCI grout under 300 x 300 x 12mm thick base plate	No	15		
		<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY III)</u></b>			
		<u>Rough formwork to sides</u>			
10	Strip footings (Provisional)	m2	53		
11	Stub columns	m2	16		
		<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
		<u>Extra over rough formwork to sides for smooth formwork</u>			
12	Outer sides of beams	m2	58		
		<b><u>MOVEMENT JOINTS</u></b>			
		<u>Saw-cut joints. Cut as soon as concrete has hardened sufficiently to prevent dislodgment of aggregate particles (8 to 24 hours after casting)</u>			
13	3 x 30mm Saw-cut joints in top of concrete	m	51		
		<b>Carried Forward</b>			
		Section No. 2			
		Bill No. 3			
		Concrete, Formwork and Reinforcement			
		<b>Project Code: ZNB 5579/2021-H</b>			
					R

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		Brought Forward			R
	<u>Joints reamed to 10 x 10mm. A minimum of 7 days after concrete is cast</u>				
14	On surface bed	m	51		
	<u>Isolation joints between horizontal concrete and vertical surfaces</u>				
15	Between surface bed slab and vertical surfaces	m	316		
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>				
	<u>Mild steel reinforcement to structural concrete work</u>				
16	Varying diameter bars to strip footings	t	5.54		
17	Varying diameter bars to columns in foundation	t	0.13		
18	Varying diameter bars to beam	t	5.56		
	<u>Fabric reinforcement</u>				
19	Type 193 fabric reinforcement fixed 30mm from top of concrete surface beds	m2	270		
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 3					
Concrete, Formwork and Reinforcement					
<b>Project Code: ZNB 5579/2021-H</b>					

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>BRICKWORK</u></b></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>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</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 and weathered pointing.</p> <p><b><u>BLOCKWORK</u></b></p> <p><u>Concrete masonry units</u></p> <p>Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7MPa</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 2            Bill No. 4            Masonry</p>			R	
	<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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		<b>Brought Forward</b>			R
		<u>Wall ties for blockwork</u>			
		Wall ties shall be polypropylene ties complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m in the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other			
		<u>Blockwork</u>			
		Blockwork shall comply with SANS 10145 "Concrete Masonry Construction"			
		Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole			
		<b><u>BRICKWORK</u></b>			
		<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
		<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
1	Half brick walls	m2	20		
2	One brick walls	m2	33		
		<b><u>SUPERSTRUCTURE</u></b>			
		<u>Brickwork of NFP bricks in class II mortar</u>			
3	Half brick walls	m2	73		
4	One brick walls	m2	94		
		<b>Carried Forward</b>			
		Section No. 2 Bill No. 4 Masonry			R
		<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward			R
5	Half brick walls in beamfilling		m2	9	
6	One brick walls in beamfilling		m2	14	
<b><u>BRICKWORK SUNDRIES</u></b>					
<u>Joint forming material in movement joints</u>					
7	10mm Bitumen impregnated soft board sealed with polysulphide sealant (measured elsewhere) built in vertically between skins		m	316	
<u>2,5mm Galvanised brick reinforcement</u>					
8	75mm Wide reinforcement built in horizontally		m	64	
9	115mm Wide reinforcement built in horizontally		m	218	
<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>					
10	Lintels in lengths not exceeding 3m		m	53	
<b><u>FACE BRICKWORK</u></b>					
<u>222 x 106 x 73mm Facebrick. Corobrick Specialist to match new brickwork to existing</u>					
11	Extra over brickwork for face brickwork		m2	64	
12	Extra over for face brickwork in beamfilling		m2	17	
<b>Carried Forward to Summary of Section No. 2</b>					R
Section No. 2					
Bill No. 4					
Masonry					
<b>Project Code: ZNB 5579/2021-H</b>					





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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b>				
	<b><u>BILL NO 6</u></b>				
	<b><u>ROOF COVERINGS</u></b>				
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<u>Corrugated 10.5 profile chromadek roof sheeting. 0.8mm thick galvanized Z275 steel. Chromadek finish to one side, in single length fixed to timber purlins.</u>				
1	Roof covering with pitches not exceeding 18 degrees	m2	459		
	<b><u>ROOF AND WALL INSULATION</u></b>				
	<u>Two direction foil faced with reinforced scrim in the middle with non-combustible over purlin with galvanised straining wire at 275mm spacing</u>				
2	Insulation sheeting laid taut over purlins and fixed concurrent with roof covering including galvanised steel straining wires at 275mm spacing	m2	459		
	<u>135mm AluCool insulation between purlin</u>				
3	Insulation blanket laid taut between purlins, including fixing	m2	459		
	<b><u>SHEET METAL FLASHINGS, LININGS AND COPINGS.</u></b>				
	<b><u>Aluminium sheet</u></b>				
4	Ridge flashings to roof pitches not exceeding 18 degrees	m	23		
	<b>Carried Forward to Summary of Section No. 2</b>				R
	Section No. 2				
	Bill No. 6				
	Roof coverings, claddings				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No	<u>SECTION 3 - MORTUARY ALTERATIONS</u>	Unit	Quantity	Rate	Amount
	<u>BILL NO 6</u>				
	<u>CARPENTRY AND JOINERY</u>				
	<u>Fixing</u>				
	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				
	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				
	<u>Decorative thermosetting plastic laminate covering</u>				
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
	<u>TIMBER DOORS &amp; WINDOWS</u>				
	<u>Fire doors</u>				
	<u>DOORS</u>				
	<u>MD-1: 1800 X 2100mm solid timber single doors, hung to steel frames</u>				
1	40mm Door 1800 x 2100mm high	No	8		
	<u>MD-2 &amp; MD-4 900 X 2500mm solid core timber double swing doors, hung to steel frames</u>				
2	40mm Door 900 x 2500mm high	No	17		
	<u>ROOFS</u>				
	<b>Carried Forward</b>				
	Section No. 2				
	Bill No. 7				
	Carpentry and joinery				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	



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Item No	Unit	Quantity	Rate	Amount
<b><u>BILL NO ?</u></b>				
<b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b>				
<u>Fixing</u>				
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				
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				
<u>Ceilings</u>				
Unless otherwise described ceilings shall be deemed to be horizontal				
<u>Bulkheads</u>				
Unless otherwise described bulkheads shall be deemed to be horizontal along the length				
<u>Steel components</u>				
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121				
<b><u>CEILING TIMBERS, BEADS, INSULATION</u></b>				
<b><u>SUSPENDED CEILINGS</u></b>				
<u>SUPPLEMENTARY PREAMBLES</u>				
<u>Proprietary suspended ceilings</u>				
Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations				
<b>Carried Forward</b>			R	
Section No. 2 Bill No. 8 Ceilings				
<b>Project Code: ZNB 5579/2021-H</b>				

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Flush plastered gypsum plasterboard suspended ceilings</u></p> <p>Ceilings shall comprise 9,5mm (12,5mm?) gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><u>Flush plastered gypsum plasterboard suspended bulkheads</u></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p> <p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 2        Bill No. 8        Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		Brought Forward			R
1	<p><u>OWACOUSTIC Vinyl faced ceiling tiles - 12.5mm Thick White Vinyl Gypsum Tiles On 1200mm x 600mm T38V White Ceiling Grid, including Hangers:</u>  <u>OWAcoustic Constellation Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.70, CAC - 33dB, Fire Classification A2-s1, d0, weight - 4.5 kg/m<sup>2</sup>, size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on OWAT24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of Galvanised hangers at centres not exceeding 1200mm, and all installed to manufacturer's instructions. OWA Shadowline W-trim, plugged and screwed at centres not exceeding 200mm. Ceilings Suspended not Exceeding 1m Below Timber Trusses.</u></p> <p>Ceilings suspended not exceeding 1m</p>	m2	256		R
	<p><b>Carried Forward</b>            Section No. 2            Bill No. 8            Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>				R

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	<b>Brought Forward</b>			R
	<p><u>1X RHINOBOARD® MOISTURERESISTANT™ 12.5 MM (locally manufactured, ISO 9001 &amp; 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe® D32K Cross Tee (Locally manufactured, recycled content, ISO 9001 &amp; 14001 certification) using Gyproc Sharp-point Screws 25 mm at maximum 150 mm centres. Gypframe® D37K Main Tee installed at 1200 mm centres and suspended using Gyproc Galvanised Angle 25 mm x 25 mm hangers at 1000 mm centres. Gypframe® D32K Cross Tee at 600 mm centres. Hangers to be maximum 400 mm from perimeter wall. Apply Gyproc RhinoTape® to all joints and internal corners. Install Gypframe® Corner Bead to all external corners. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus® (locally manufactured). Wall Angle - Fix Gyproc Plaster Trim 12.5mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non-combustible, lightweight Aerolite® insulation material between the roof trusses and over bracing/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification with Gyproc 20mm aluminium plaster trim fixed to wall at 300 mm centres</u></p>			
2	Ceilings suspended not exceeding 1m	m2	105	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 8 Ceilings			
	<b>Project Code: ZNB 5579/2021-H</b>			

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	Brought Forward			R
	<p><u>1X RHINOBOARD® 9 MM (locally manufactured, ISO 9001 &amp; 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe® D32K Cross Tee (Locally manufactured, recycled content, ISO 9001 &amp; 14001 certification) using Gyproc Sharp-point Screws 25 mm at maximum 150 mm centres.</u>  <u>Gypframe® D37K Main Tee installed at 1200 mm centres and suspended using Gyproc Galvanised Angle 25 mm x 25 mm hangers at 1200 mm centres.</u>  <u>Gypframe® D32K Cross Tee at 400 mm centres.</u>  <u>Hanger to be maximum 400 mm from perimeter wall.</u>  <u>Apply Gyproc RhinoTape® to all joints. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus®/ RhinoLite® CreteStone® (locally manufactured, Greentag Level B).</u>  <u>Install Gypframe® Corner Bead to all external corners.</u>  <u>Gyproc Plaster Trim 9.5 mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non combustibile, lightweight Aerolite insulation material between the roof trusses and over branding/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification with Gyproc 20mm aluminium plaster trim fixed to wall at 300 mm centres.</u></p>			
3	Ceilings suspended not exceeding 1m	m2	12	
	<u>Owacoustic Shadowline Cornice</u>			
4	Pre-painted cornices, plugged	m	241	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 8 Ceilings			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b>				
	<b><u>BILL NO 7</u></b>				
	<b><u>FLOOR COVERINGS &amp; WALL LININGS</u></b>				
	<u>Fixing</u>				
	Floor coverings & wall linings, shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring and linings.				
	<b><u>FLOOR COVERINGS</u></b>				
	Ref: Architect's drawing no B-600 PROPOSED FINISHES SCHEDULE - BLOCK B Rev_A				
	<u>2mm THK PolyFlor 2000 PUR</u>				
1	On floors	m2	198		
	<u>2mm THK PolyFlor Vogue Ultra PUR</u>				
2	On floors	m2	18		
	<u>Grano-colour, applied by dry-shake method and steel floated to a smooth finish</u>				
3	On floors	m2	16		
	<b><u>SKIRTINGS</u></b>				
	<u>100mm high Grano skirting</u>				
4	On floors	m	16		
	<u>POLYFLOR Set In Cove skirting in 50 x 100mm with 10mm radius. Welding to match vinyl sheet flooring.</u>				
5	On floors	m	208		
	<b>Carried Forward</b>				
	Section No. 2				
	Bill No. 9				
	Floor coverings, wall linings				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	



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Item No	<b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 8</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<u>Proprietary items</u>				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	<b><u>LOCKS</u></b>				
	<u>Keys</u>				
	Unless otherwise described locks shall have two keys each				
	<b><u>In accordance with Door Schedule</u></b>				
1	Cylinder lock, dead lock to one side	No	26		
	<b><u>HANDLES</u></b>				
	<b><u>In accordance with Door Schedule</u></b>				
2	Approved lever handles	No	26		
	<b><u>CLADDING</u></b>				
	<b>Carried Forward</b> Section No. 2 Bill No. 10 Ironmongery			R	
	<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
		<u><b>In accordance with "?" catalogue</b></u>		
3	<u>900mm high Grade 304 stainless steel cladding</u>	No	17	
4	<u>300mm high Grade 304 stainless steel cladding</u>	No	8	
		<b><u>DOOR CLOSERS</u></b>		
		<u><b>In accordance with Door Schedule</b></u>		
5	One pair double action transom closer with shoe strap	No	1	
6	Wall mounted stop	No	25	
		<b><u>SUNDRIES</u></b>		
		<u><b>In accordance with Door Schedule</b></u>		
7	90 degrees hold open door closer on inside	No	1	
 <b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 10				
Ironmongery				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO 9</u></b></p> <p><b><u>STRUCTURAL STEELWORK</u></b></p> <p><u>User note</u></p> <p><i>Insert preambles/specifications as may be required or in order to supplement any applicable preambles, specifications or bills of quantities descriptions</i></p> <p><i>Take note that these Model Bills of Quantities utilise abbreviated descriptions</i></p> <p><i>The Model Preambles for Trades 2008 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated bills of quantities descriptions by inter alia referring to SANS construction standards. <b><u>Where such model preambles are not applicable</u></b> (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the applicable measuring system, represents the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Consider inserting the preambles hereunder when using the abovementioned Model Preambles for Trades 2008</i></p> <p><i>Consideration is to be given in specific applications (e.g. where "heavy" steel structures such as in industrial plants, towers for mine shafts, etc are dominant) to implement the principles laid down by the "Measurement for Structural Steelwork" as prepared and recommended by the South African Institute of Steel Construction or any other appropriate principles</i></p> <p><i>This bill is, however, based on the building work measuring system</i></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 2            Bill No. 11            Structural steelwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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	<b>Brought Forward</b>			<b>R</b>
<p><i>Finishing-off painting is to be included in this trade only when the structural steel contractor is required to execute the work</i></p>				
<p><u>Descriptions</u></p>				
<p>Descriptions of bolts shall be deemed to include nuts and washers</p>				
<p>Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete</p>				
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>				
<p><b><u>STEELWORK</u></b></p>				
<p><b><u>Columns</u></b></p>				
<p><u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>  <u>As shown on Drawing i0223-STR-004 rev B</u></p>				
<p>1 350 x 350mm galvanised steel columns</p>		t	0.58	
<p><b>Carried Forward to Summary of Section No. 2</b>            Section No. 2            Bill No. 11            Structural steelwork</p>				<b>R</b>
<p><b>Project Code: ZNB 5579/2021-H</b></p>				

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b>				
	<b><u>BILL NO 10</u></b>				
	<b><u>METALWORK</u></b>				
	<u>Descriptions of bolts &amp; anchors</u>				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described				
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres				
	<u>Aluminium doors &amp; windows</u>				
	Doors and windows shall comply with AAAMSA design criteria				
	Glazing shall comply with SAGGA regulations. Glass shall be clear, laminated safety glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings				
	Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed				
	For purpose made windows and doors, refer to drawings annexed to (issued separately with?) these bills of quantities				
	<b>Carried Forward</b>				
	Section No. 2				
	Bill No. 12				
	Metalwork				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

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<b>Brought Forward</b>				R
The following certificates shall be provided prior to commencement of site work:				
1	A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product			
2	A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively			
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for period of not less than five years			
a				
<b><u>DOORS, WINDOWS &amp; SHOPFRONTS</u></b>				
<b><u>DOOR FRAMES</u></b>				
<u>1.6mm Grade 304 steel frames</u>				
1	Frame for door 900 x 2500mm high	No	17	
2	Frame for door 1800 x 2100mm high	No	8	
3	Frame for door 2100 x 900mm high	No	1	
<b>Carried Forward</b>				R
Section No. 2 Bill No. 12 Metalwork				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
		<b><u>STEEL ROLLER SHUTTERS</u></b>			
		<u>MD-4: 2500 x 2100mm Roller Shutter Door fixed to 50x50x2.5mm steel frame with 16mm diameter steel bars at 80 centres.</u>			
4	Electrically operated slatted roller shutter for 2500 x 2100mm high opening, including electrical connection and commissioning		No	2	
		<b><u>ALUMINIUM WINDOWS</u></b>			
		<u>Note</u>			
		Refer to attached window schedules for details of windows			
		<u>CREALCO SWIFT 38 extruded aluminium sections to sizes as shown to comply with 'AAAMSA' specifications. All window shopfronts sections to be designed and supplied by manufacturer to sustain wind loads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400 Part N and will remain the responsibility of manufacturer to provide the client with the documents as requested. All structural sections, compensation channels &amp; accessories per manufacturer's design. Colour: Powdercoated - Colour TBC</u>			
5	WP-1: 1800 x 1234mm high purpose made window		No	1	
6	WP-2: 1266 x 1234mm high purpose made window		No	2	
7	WP-4: 11061 x 2695mm high custom-made aluminium shopfront		No	1	
8	WP-1: 11100 x 2695mm custom-made aluminium shopfront		No	1	
9	WP-3: 2990 x 2695mm high custom-made aluminium shopfront		No	1	
		<b>Carried Forward</b>			R
		Section No. 2 Bill No. 12 Metalwork			
		<b>Project Code: ZNB 5579/2021-H</b>			

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	<b>Brought Forward</b>			<b>R</b>
10	2951 x 2497mm high custom-made aluminium shopfront	No	2	
11	WP-2: 1415 x 2497mm high custom-made aluminium shopfront	No	2	
12	3999 x 2704mm high custom-made aluminium shopfront	No	1	
<b><u>ALUMINIUM DOORS</u></b>				
<u>Glazed aluminium shopfront doors as per door schedule, complete with subframes, ironmongery, glass, sealing and fixing to brickwork or concrete</u>				
13	Type MD-3: 900 x 2100mm high purpose made single door	No	1	
<b>Carried Forward to Summary of Section No. 2</b>				
Section No. 2				
Bill No. 12				
Metalwork				
<b>Project Code: ZNB 5579/2021-H</b>				
				<b>R</b>

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO 10</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 2            Bill No. 13            Plastering</p>			R	
	<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 2        Bill No. 13        Plastering</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b>				
	<b><u>BILL NO 11</u></b>				
	<b><u>TILING</u></b>				
	<u>Patterns</u>				
	Unless otherwise described, tiles shall be laid with continuous joints in both directions				
	<u>Fixing</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				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles				
	Ref: architect's drawing no B-600 Proposed Finishes Schedule - Block B; B-103 Mortuary layout Finishes Floor Layout Block B				
	<b><u>FLOOR TILING</u></b>				
	<u>Mosaic floor tiles on concrete including approved 20mm thick bedding fixed with epoxy adhesive, grouted with an approved epoxy grouting.</u>				
1	On shower floors	m2	3		
	<b>Carried Forward</b> Section No. 2 Bill No. 14 Tiling			R	
	<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
	<u>600x600x8.5mm full bodied Porcelain Slip Resistant tiles minimum certification rating of R10/R11 with joints of 3mm.</u>				
2	On floors	m2	19		
	<u>Aluminium dividing strips</u>				
3	Flat section dividing strips between tiles and other floor coverings	m	8		
	<b><u>WALL TILING</u></b>				
	<u>200x330mm White Glazed Wall Tiles or to match existing if applicable</u>				
4	On walls	m2	130		
<b>Carried Forward to Summary of Section No. 2</b>					
	Section No. 2				
	Bill No. 14				
	Tiling				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b></p> <p><b><u>BILL NO 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><b><u>RAINWATER DISPOSAL</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 2            Bill No. 15            Plumbing and drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		<b>Brought Forward</b>			R
	<u>OGEE 125x75mmx0.6mm Seamless aluminium eaves gutter &amp; 100x75mmx0.6mm Fluted aluminium down pipes with baked enamel finish. sized in accordance with the requirements of 4.3, of Part R SANS 10400</u>				
1	100mm Diameter rainwater pipes	m		19	
2	Extra over for roof outlet including M8 Bolt	No		5	
3	Extra over for pipe connector to gutter outlet	No		5	
4	Extra over single socket bends	No		5	
5	Extra over downpipe for shoe	No		5	
<b><u>SANITARY FITTINGS</u></b>					
Ref: architect's drawings no B-700 PROPOSED SANITARY SCHEDULE - BLOCK B (1/2) & B-701 PROPOSED SANITARY SCHEDULE - BLOCK B (2/2)					
<u>Sanitary Fittings</u>					
6	Sunridge Mounted Soap Dispenser, Product Code: SR-SOAP-DIS manufactured from Grade 304 stainless steel satin finish. The soap dispenser incorporates a replaceable and refillable sachet into the container to replace when soap liquid is finished. Unit can be mounted to the wall and the cylinder have a lock with a key and supplied with mounting kit for installation. All as per Sunridge sanitary ware or similar approved. Sunridge s/s wall mounted soap dispenser to be elbow action to hold a 500ml soap bottle or similar approved	No		6	
7	Sunridge Sanitary Bin - Stainless Steel waste bin 20 litre, Product Code: SR-BIN-PED-SS manufactured from Grade 304 with a satin finish place on ground. Plastic bag can be replaced when full. Open top waste bin Dimensions: 49cm x 42cm x 17cm. All as per Sunridge sanitary ware or similar approved	No		6	
		<b>Carried Forward</b>			R
		Section No. 2 Bill No. 15 Plumbing and drainage			
		<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>				R
8	Sunridge folded paper towel dispenser manufactured from grade 304 stainless steel satin finish. The towel dispenser is ideal for high traffic restrooms. Unit to be mounted against the wall and supplied with installation kit. Quoted without paper towels. takes maximum of 600 paper towels. Sunridge s/s or similar approved folded paper towel dispenser. Paper towel dispenser to have no sensors. Dimensions: 38 x 29 x 12cm to be fixed against the wall.	No	6	
9	Sunridge wall mounted toilet holder with a spindle rod inside the unit to roll off the paper easily and waste less. Manufactured from grade 304 stainless steel satin finish surface. The unit takes only 3 toilet rolls to fill. It has a key and lock on top of the unit to lock and replace paper. Easy to mount to the wall and supplied with installation kit included. Dimensions: 14cm x 13cm x 41cm Quoted in satin finish stainless steel.	No	3	
10	Sunridge Obese Body Trays 2170x634mm For Mortuary Product Code:SR-OBESE-BODY	No	3	
11	Sunridge Standard Body Trays 2090x580mm For Mortuary Product Code:SR-STD-BODY	No	3	
<u>Wash hand basins</u>				
12	Sunridge Product Code:SR-WHB-001B	No	2	
13	Sunridge Lavee Entree EWHB Wall Hung Basin with overflow	No	3	
<u>Water Closets</u>				
14	Sunridge ECCS: Entree Closed Couple Suite	No	3	
<u>Stainless Steel Sinks According to the Sanitary Schedule</u>				
15	Sunridge Brescia Single Bowl Sink 860x500mm with 52mm Waste Hole Product Code:BS860	No	1	
<b><u>TRAPS</u></b>				
<b>Carried Forward</b>				R
Section No. 2 Bill No. 15 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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		<b>Brought Forward</b>			R
		<u>Traps according to Sanitary Schedule</u>			
16	BSSTRB Shower Trap Brass Brescia Cp Top Round	No	2		
17	BVBTR-NUT Brevik Trap Adaptor 32x40mm	No	5		
18	BVBTR Brevik Bottle Trap Round.	No	2		
19	B V BTR-H Brevik Bottle trap Round	No	3		
20	BV40B Sink Waste Brevik Brass Cp 40mm.	No	2		
21	B V 32BS Basin Waste Brevik Slotted Brass Cp 32mm	No	3		
22	E017 SV 110mm Pan Collar & Seal R/R Eurofit	No	3		
		<b><u>TAPS &amp; VALVES</u></b>			
		<u>Taps according to Sanitary Schedule</u>			
23	SUNRIDGE Brevik Shower Rose 100mm Single Function.Product Code:BVSRI	No	2		
24	B T 01 Borrás Traditional Basin Pillar Tap15mm	No	3		
25	BT28 Borrás Traditional Stop Tap Undertile 15mm CxC	No	2		
26	BT51 Traditional Sink Mixer Deck Type Traditional	No	1		
27	BMM60W Borrás Medico Wall Type Legs	No	2		
28	BMM60 Borrás Medico Sink Mixer Deck Type Spout.	No	2		
		<u>Valves according to Sanitary Schedule</u>			
29	DZRBSAV4 Angle Valve Bretten 15x15 Qtr Rnd Handle DZR.	No	6		
30	350DZRBSAV3 Angle Valve Bretten 15x15 Std Valve Rnd Handle DZR and Braid SATAS Jaswic 350mm	No	3		
		<b>Carried Forward</b>			R
		Section No. 2 Bill No. 15 Plumbing and drainage			
		<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
	<b><u>SOIL DRAINAGE</u></b>			
31	Provision for Soil Drainage		Item	90 000.00
	<b><u>AS-BUILT DRAWINGS</u></b>			
32	Provision of as-built drawings		Item	
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 15				
Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<b><u>BILL NO ?</u></b>				
	<b><u>GLAZING</u></b>				
	<u>Float glass</u>				
	The term "float glass" is used for monolithic annealed glass				
	<u>Laminated glass</u>				
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)				
	<b><u>MIRRORS</u></b>				
	<u>6mm Silvered float glass copper backed mirrors with polished edges, holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>				
1	800 x 600 x 6mm Anti-ligature mirror	No	3		
	<b><u>FANLIGHTS</u></b>				
	<u>Glazing to door fanlights</u>				
2	900 x 300mm fanlight to 900 x 2500mm high door	No	17		
	<b>Carried Forward to Summary of Section No. 2</b>				
	Section No. 2				
	Bill No. 16				
	Glazing				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 3 - MORTUARY ALTERATIONS</u></b>				
	<b><u>BILL NO 13</u></b>				
	<b><u>PAINTWORK</u></b>				
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
	<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>				
	<u>Previously painted plastered surfaces</u>				
	Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
	<u>Previously painted metal surfaces</u>				
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
	<u>Previously painted wood surfaces</u>				
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
	<b><u>PAINT SPECIFICATIONS</u></b>				
	All painting shall be done in accordance with "?" specifications unless otherwise described				
	<b><u>PAINTWORK TO NEW WORK</u></b>				
	<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>				
	<b>Carried Forward</b>				
	Section No. 2				
	Bill No. 17				
	Paintwork				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	



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<b>Bill No</b>	<b>SECTION SUMMARY - SECTION 3 - MORTUARY ALTERATIONS</b>	<b>Page No</b>	<b>Amount</b>
1	Alterations	167	
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7	Carpentry and joinery	182	
8	Ceilings	187	
9	Floor coverings, wall linings	189	
10	Ironmongery	191	
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13	Plastering	200	
14	Tiling	202	
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17	Paintwork	210	
	<b>Carried to Final Summary</b>		
	Section No. 2		
	<b>Project Code: ZNB 5579/2021-H</b>		
			R

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p> <p><u>General</u></p> <p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p> <p>Doors, fanlights, windows, fittings, frames, linings, which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately ?km to store and handed over to the employer</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 3</p> <p>Bill No. 1</p> <p>Alterations</p>			R	
	<p><b>Project Code: ZNB 5579/2021-H</b></p>				

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			<b>R</b>
<p>Doors, fanlights, windows, fittings, frames, linings, which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors and windows shall include for removal of all beads, architraves and ironmongery.</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, door closers and cabin hooks.</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings)</p> <p><b><u>NEW WORK CHIEFLY INSIDE EXISTING BUILDING(S)</u></b></p> <p><i>New work chiefly inside existing building(s) shall be given in accordance with the principles laid down in the relevant trades</i></p>			
1	Budgetary Allowance for Demolitions	Item	150 000.00
2	Budgetary Allowance for Decanting Space	Item	250 000.00
<b>Carried Forward to Summary of Section No. 3</b>			<b>R</b>
Section No. 3 Bill No. 1 Alterations			
<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2", in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>			
	<p><b>Carried Forward</b></p> <p>Section No. 3            Bill No. 2            Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

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Brought Forward			R
<b><u>EXCAVATION, FILLING, OTHER THAN BULK</u></b>			
<b><u>EXCAVATIONS</u></b>			
<u>Excavation in earth not exceeding 2m deep</u>			
1	Trenches and Holes	m3	79
<u>Extra over bulk excavations in earth for excavation in</u>			
2	Soft rock	m3	12
3	Hard rock	m3	8
<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	26
<u>Risk of collapse of excavations</u>			
5	Sides of bulk excavations not exceeding 1,5m deep	m2	181
<u>Keeping excavations free of water</u>			
6	Keeping excavations free of all water other than subterranean water		Item
<u>De-watering of seepage water and water from other subterranean sources in excavations</u>			
7	Allow for pumping		Item
<b><u>FILLING</u></b>			
<u>Filling of natural gravel material G5 supplied by the contractor, compacted to 93% Mod AASHTO density</u>			
8	Under floors, step and pavings	m3	7
9	Backfilling to trenches, holes	m3	33
<b>Carried Forward</b>			R
Section No. 3 Bill No. 2 Earthworks (Provisional)			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
	<u>Filling of coarse river sand supplied by the contractor, consolidated</u>		
10	Under floors	m3	4
	<u>Filling of hardcore, consolidated</u>		
11	Under floors	m3	12
	<u>Compaction of ground surfaces</u>		
12	Compaction of natural or excavated ground surface under floors and foundation trenches, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	93
<b><u>WEED KILLERS, INSECTICIDES</u></b>			
	<u>Soil insecticide in accordance with SANS 5859</u>		
13	Under floors including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	43
<b><u>TESTS</u></b>			
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>		
14	"Modified AASHTO Density" test	No	6
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 2			
Earthworks (Provisional)			
<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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> <p>Formwork to soffits of solid slabs, shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>			
	<p><b>Carried Forward</b></p> <p>Section No. 3</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

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<b>Brought Forward</b>			R
Formwork to soffits of slabs, beams, shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described			
Formwork to sides of bases, pile caps, ground beams, 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"			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>15MPa/19mm concrete</u>			
1	Surface blinding under strip footings	m3	5
2	Plinth	m3	0.2
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>25MPa/19mm concrete</u>			
3	Strip footings	m3	15
4	Surface beds	m3	6
5	Column bases	m3	64
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>			
<u>Class 30/19 30MPa</u>			
6	Columns in foundations (Provisional)	m3	1
7	Columns	m3	6
<b>Carried Forward</b>			R
Section No. 3 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>			

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Brought Forward			R
<b><u>TEST CUBES</u></b>			
8	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6
<b><u>CONCRETE SUNDRIES</u></b>			
<u>Curing surfaces of concrete with curing compound applied as specified in the Structural Specifications</u>			
9	Various components	m2	91
<u>Finishing top surfaces of concrete smooth with a power float</u>			
10	Surface beds, slabs	m2	43
<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<u>Smooth formwork to sides</u>			
11	Column stumps	m2	18
12	C6: 500 x 230mm Rectangular columns	m2	49
<b><u>MOVEMENT JOINTS</u></b>			
<u>Expansion joints with closed cell expanded polyethylene between vertical concrete and brick surfaces</u>			
13	Not exceeding 300mm high to edges of surface beds	m	51
<u>Saw-cut joints</u>			
14	Seal joint with approved joint sealant with backing cord and bond breaker strip	m	19
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
<b>Carried Forward</b>			R
Section No. 3 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>			

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Brought Forward			R
	<u>High tensile steel reinforcement to structural concrete work</u>		
15	Reinforcement steel in bars of various diameter	t	1.35
	<u>High tensile steel dowel bars</u>		
16	16mm Diameter dowel bar 300mm long with one end embedded 150mm deep in side of concrete at expansion joint and other end greased and wrapped in polythene sheeting, including hole through formwork	No	20
<b>Carried Forward to Summary of Section No. 3</b>			
Section No. 3			
Bill No. 3			
Concrete, Formwork and Reinforcement			
<b>Project Code: ZNB 5579/2021-H</b>			
			R



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Brought Forward			R
	<u>Brickwork of NFX bricks in class 1:5 mortar</u>		
3	Half brick walls	m2	77
4	One brick walls	m2	138
	<b><u>BRICKWORK SUNDRIES</u></b>		
5	Raking out joints of existing face brickwork to receive plaster finish	m2	184
	<u>2,5mm Galvanised brick reinforcement</u>		
6	75mm Wide reinforcement built in horizontally	m	19
7	110mm Wide reinforcement built in horizontally	m	146
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>		
8	Lintels in lengths exceeding 4,5m and not exceeding 6m	m	25
	<u>Turning pieces to lintels</u>		
9	230mm Wide turning pieces	m	2
	<u>Galvanised hoop iron cramps, ties,</u>		
10	40 x 1,6mm wall tie strips shot pinned to concrete and with ties bent out and built into brickwork	m	32
	<u>Air bricks</u>		
11	229 x 76mm Clay vermin proof air brick	No	6
	<b><u>FACE BRICKWORK</u></b>		
	<u>Face bricks pointed with recessed horizontal and vertical joints</u>		
12	Extra over brickwork for face brickwork	m2	138
	<b>Carried Forward to Summary of Section No. 3</b>		
	Section No. 3		
	Bill No. 4		
	Masonry		
	Project Code: ZNB 5579/2021-H		
			R

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO 5</u></b>			
	<b><u>SECTION 4 - BULK PHARMACY</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<u>Waterproofing</u>			
	Waterproofing of roofs, basements shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets 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			
	<b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>			
	<u>One layer 375 micron embossed polyethylene damp-proof course (SANS 952-1985 type B)</u>			
1	In walls	m2	6	
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2	Under surface beds	m2	87	
	<b>Carried Forward to Summary of Section No. 3</b>			
	Section No. 3			
	Bill No. 5			
	Waterproofing			
	<b>Project Code: ZNB 5579/2021-H</b>			
				R

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO 6</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></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><b><u>CUPBOARDS TO KITCHENS</u></b></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>General</u></p> <p>The following cupboard fittings are given as complete units i.e. the components of the units have not been given separately. Descriptions of such units shall, therefore, be deemed to include all components, assembling, housing, notching, glueing, blocking, planting-on and screwing with countersunk screws, edge strips, thermosetting plastic laminate, glass, ironmongery, metalwork, paint or varnish finishes.</p> <p>Prices are to include for all necessary filler pieces against walls.</p> <p><u>References</u></p> <p>References given in descriptions refer to the respective types of fittings detailed on the architect's drawing(s) for tender purposes</p>			
	<p><b>Carried Forward</b></p> <p>Section No. 3            Bill No. 6            Carpentry and Joinery</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	



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Item No	Quantity	Rate	Amount
<b><u>SECTION 4 - BULK PHARMACY</u></b>			
<b><u>BILL NO 7</u></b>			
<b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b>			
<u>Fixing</u>			
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.			
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			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>Bulkheads</u>			
Unless otherwise described bulkheads shall be deemed to be horizontal along the length			
<u>Steel components</u>			
All steel components for ceilings, partitions, are to be galvanised in accordance with SANS 121			
<b><u>NAILED-UP CEILINGS</u></b>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<b>Carried Forward</b> Section No. 3 Bill No. 7 Ceiling			R
<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
	<u>Openings</u>			
	Prices for openings for light fittings, ventilation grilles, and air conditioning diffusers, are to include for any necessary additional support and trimming around.			
	<u>Owacoustics Vinyl Faced Ceiling Tiles</u>			
1	12.5 Thick White Vinly Gypsum Tiles on 1200mm x600mm T38V White Ceiling Grid, including Hangers.	m2	128	
	<u>Shadowline cornices</u>			
2	Owacoustic Coved cornices	m	51	
<b>Carried Forward to Summary of Section No. 3</b>				R
Section No. 3				
Bill No. 7				
Ceiling				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 4 - BULK PHARMACY</u></b>			
	<b><u>BILL NO 9</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<u>Proprietary items</u>			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	<b><u>LOCKS</u></b>			
	<u>Keys</u>			
	Unless otherwise described locks shall have two keys each			
1	Type DB-1: Cylinder lock with dead lock to one side	No	1	
2	Type DB-2: Cylinder lock, dead lock to one side with thumb turn cylinder	No	2	
3	Type DB-4: Touch bar, panic latch for single door	No	1	
	<b><u>HANDLES</u></b>			
4	Type DB-1: brass plated approved lever handles	No	1	
	<b>Carried Forward</b>			R
	Section No. 3			
	Bill No. 8			
	Ironmongery			
	<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
5	Type DB-2:brass plated approved lever handles	No	2
<b><u>PUSH PLATES AND KICK PLATES</u></b>			
<u>3mm Thick satin finished stainless steel plates countersunk screwed along edges at not exceeding 200mm centres</u>			
6	Type DP-4: kick plate	No	2
<b><u>DOOR CLOSERS</u></b>			
7	1 pair double action transom closure with shoe strap	No	1
<b><u>LETTERS, NAMEPLATES</u></b>			
8	Anodised aluminium plate with male or female symbol	No	1
9	Anodised aluminium plate with fire exit, fire extinguisher, fire hose reel or fire hydrant symbol	No	4
<b><u>SUNDRIES</u></b>			
10	Type DB-1: 90 degree hold open door closure on inside	No	1
11	Type DB-2: Wall mounted door stop	No	2
<u>Rubber door mats</u>			
12	800 x 600 mm Door mat laid loose in mat surround	No	1
<b><u>BATHROOM FITTINGS</u></b>			
<u>Franke Stratos STRX 672e, 1,2/1,5mm thick grade 304 18/10 satin stainless steel recessed toilet roll holders, size 304 x 156 x 140,7 mm deep for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to wall with stainless steel screws.</u>			
13	Toilet paper Roller	No	1
<b>Carried Forward</b>			R
Section No. 3 Bill No. 8 Ironmongery			
<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
	<u>Franke Stratos STRX 618, 1.2/1.5mm thick grade 304 x 100 x 134mm deep with replaceable and refillable 1 x litre container, cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws.</u>			
14	Soap dispenser	No	1	
	<u>Frank Stratos STRX 611 or similar approved 1,2/ 1,5mm thick grade 304 18/10 satin stainless steel sanitary towel disposal bins (code: 359740), size 304 x 205 x 134mm deep with capacity of 6 litres, plugged and screwed to the wall with stainless steel screws.</u>			
15	Paper Towel dispenser	No	1	
	<u>SR-ANT-BIN GRADE 304stainless Steel Satin finish</u>			
16	Sanitary Towel Disposal Bin	No	2	
<b>Carried Forward to Summary of Section No. 3</b>				
Section No. 3				
Bill No. 8				
Ironmongery				
<b>Project Code: ZNB 5579/2021-H</b>				
				R

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Item No	SECTION 4 - BULK PHARMACY	Quantity	Rate	Amount
	<b><u>BILL NO 8</u></b>			
	<b><u>FLOOR COVERINGS AND WALL LININGS</u></b>			
	<u>Fixing</u>			
	Floor coverings, wall linings, shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings,			
	<b><u>FLOOR COVERINGS</u></b>			
	<u>2mm Thick PolyFlor 2000 PUR</u>			
1	On floors	m2	191	
	<u>2mm Thick PolyFlor Vogue Ultra PUR</u>			
2	On floors	m2	5	
	<b><u>SKIRTINGS</u></b>			
	<u>Polyflor set in cove Skirting in 50x100mm with 10mm radius</u>			
3	VINYL Skirting	m	173	
	<u>100mm high Grano Skirting</u>			
4	Grano Skirting	m	19	
	<b><u>WALL AND CORNER PROTECTORS</u></b>			
	<b>Carried Forward</b>			
	Section No. 3			
	Bill No. 9			
	Floor Coverings			
	<b>Project Code: ZNB 5579/2021-H</b>			
			R	



**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 4 - BULK PHARMACY</u></b>				
	<b><u>BILL NO 10</u></b>				
	<b><u>STRUCTURAL STEELWORK</u></b>				
	<u>Descriptions</u>				
	Descriptions of bolts shall be deemed to include nuts and washers				
	Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
	Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
	<b><u>STEEL COLUMN</u></b>				
	<u>Bolts to columns</u>				
1	4M14 to columns and bolted to rafters	No	48		
2	4M20 HD bolts to base plate	No	48		
	<b><u>BUDGETARY ALLOWANCE</u></b>				
	<u>Budgetary allowance for Structural Steelwork</u>				
3	Structural Steelwork	t	3.20		
4	Profit and Attendance			%	
	<b>Carried Forward to Summary of Section No. 3</b>				
	Section No. 3				R
	Bill No. 10				
	Structural steelwork				
	<b>Project Code: ZNB 5579/2021-H</b>				

**LADYSMITH HOSPITAL  
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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO 10</u></b></p> <p><b><u>METALWORK</u></b></p> <p><u>Descriptions of bolts, anchors</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p>			
	<p><b>Carried Forward</b></p> <p>Section No. 3            Bill No. 11            Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

**LADYSMITH HOSPITAL  
CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

**Brought Forward**

R

Aluminium doors, windows

Doors and windows shall comply with AAAMSA design criteria

Glazing shall comply with SAGGA regulations. Glass shall be type ? laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thickness shown on the schedules/drawings

Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed

For purpose made windows and doors, refer to drawings annexed to (issued separately with?) these bills of quantities

The following certificates shall be provided prior to commencement of site work:

- 1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product
- 2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively

**Carried Forward**

R

Section No. 3  
Bill No. 11  
Metalwork

**Project Code: ZNB 5579/2021-H**

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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<b>Brought Forward</b>			R
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process		
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked		
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for period of not less than five years		
a			
<b><u>STEEL BALUSTRADING</u></b>			
<b><u>GALVANISED STEEL BALUSTRADING</u></b>			
<u>Welded balustrade to stairs and landings</u>			
1	Balustrades to stairs and landings to match existing	m	11
2	Extra over for flat end	No	3
<b><u>PRESSED STEEL DOOR FRAMES</u></b>			
<u>All stainless steel frames to be 1,6mm thick and made of grade 304 steel</u>			
<u>1,6mm Thick stainless steel of grade 304</u>			
3	813 x 2032 x40mm high	No	2
<b><u>ALUMINIUM WINDOWS, DOORS, AND FRAMES</u></b>			
Architect's Door Schedule Drawing Number KZN.icp A751 and Window Schedule Drawing Number KZN.icp A701			
<b>Carried Forward</b>			R
Section No. 3 Bill No. 11 Metalwork			
<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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<b>Brought Forward</b>			R
<p><u>Aluminium windows &amp; doors to be fitted with weather and wind strips. Opening sections to windows to be top hung, outside opening.</u>  <u>All dimensions to be checked on site prior to ordering and manufacturing</u>  <u>All glass panels to comply with N.B.R. Part "N" glazing and A.A.M.S.A. regulations</u>  <u>Aluminium sections to be approved by architect prior to manufacturing</u>  <u>All aluminium windows &amp; doors as per design and supply manufacturers specifications</u>  <u>All frames to receive glazing to comply with sans 727 or sans 1553 - 2 or be capable to withstand wind and impact loads in accordance with the requirements of sans 10400-b without deflecting more than 1/175th of their span</u></p> <p><u>CREALCO Swift 38 extruded aluminium sections to sizes as shown to comply with 'AAAMSA' specifications.</u>  <u>All window shopfronts sections to be designed and supplied by manufacturer to sustain wind loads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400: Part N and will remain the responsibility of manufacturer to provide the client with the documents as requested. All structural sections, compensation channels &amp; accessories per Manufacturer's design.</u>  <u>Colour: powder coated - colour tbc</u>  <u>Glazing specification: Clear laminated Safety Glass</u></p>			
4	Type WB-1: Window size 2,600 x 600 mm high	No	4
<u>Anodised aluminum doors and frames</u>			
5	Type DB-1: Door size 1800 x 2100 glazed aluminium double doors	No	1
6	Type DB-1: Frame for door as described above	No	1
<b><u>ROLLER SHUTTER DOOR</u></b>			
<b>Carried Forward</b>			R
Section No. 3 Bill No. 11 Metalwork			
<b>Project Code: ZNB 5579/2021-H</b>			

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	Brought Forward			R
	<u>2500 x 2100mm Roller Shutter Door fixed to            50x50x2.5mm steel frame with 16mm diameter steel            bars at 80 centres.</u>			
7	Electrically operated slatted roller shutter for 2500 x 2100mm high opening, including electrical connection and commissioning	No	1	
	<b>Carried Forward to Summary of Section No. 3</b>			R
		Section No. 3		
		Bill No. 11		
		Metalwork		
	Project Code: ZNB 5579/2021-H			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No	Quantity	Rate	Amount
<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p>			
<p><b><u>BILL NO 11</u></b></p>			
<p><b><u>PLASTERING</u></b></p>			
<p><b><u>GRANOLITHIC</u></b></p>			
<p><u>Method</u></p>			
<p>The method to be used shall be either the monolithic method or the bonded method</p>			
<p><u>Preparation</u></p>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p>			
<p><u>Mix</u></p>			
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 3          Bill No. 12          Plastering</p>			
<p><b>Project Code: ZNB 5579/2021-H</b></p>			
		R	

**LADYSMITH HOSPITAL  
CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

**Brought Forward**

R

Panels

Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels

Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

**Carried Forward**

R

Section No. 3  
Bill No. 12  
Plastering

**Project Code: ZNB 5579/2021-H**

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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		Brought Forward		R
	<u>Colour</u>			
	Coloured granolithic shall be tinted with an approved colouring pigment mixed into the granolithic in the proportion of ? kg pigment per pocket of cement, of uniform appearance and consistent colour throughout			
	<b><u>SCREEDS</u></b>			
	<u>Screeds wood floated, on concrete</u>			
1	40mm thick on floors	m2	82	
	<b><u>INTERNAL PLASTER</u></b>			
	<u>Cement plaster steel trowelled, on brickwork, 12mm thick</u>			
2	On walls	m2	148	
3	On narrow widths	m	64	
<b>Carried Forward to Summary of Section No. 3</b>				R
	Section No. 3 Bill No. 12 Plastering			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO 12</u></b></p> <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p> <p><u>Wire gratings</u></p> <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p> <p><u>Stormwater channels</u></p> <p>Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site</p> <p><u>French drains</u></p> <p>Descriptions of french drains shall be deemed to include excavation, stone filling graded from 300mm diameter at bottom to 75mm diameter at top, "2" geofabric filter blanket over stone, 300mm earthfilling over and disposal of surplus material on site</p> <p><u>Septic tanks</u></p> <p>Descriptions of proprietary type septic tanks shall be deemed to include excavation, bedding and jointing, concrete base slabs, jointing to drains and backfilling, compaction, etc all in accordance with the manufacturer's instructions and disposal of surplus material on site</p>			
	<p><b>Carried Forward</b></p> <p>Section No. 3</p> <p>Bill No. 13</p> <p>Plumbing and Drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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<p style="text-align: center;"><b>Brought Forward</b></p> <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p> <p>Stainless steel for economy basins, domestic sinks and worktops shall be Type 430 (17/0)</p> <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p> <p>Stainless steel for laboratory sinks, photographic equipment, etc shall be Type 316 (18/8)</p> <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p> <p><u>Sealing of edges</u></p> <p>Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone</p> <p><u>PVC-U pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>PVC-U pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be PVC-U and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>High density polyethylene (HDPe) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p>		R	
<p style="text-align: center;"><b>Carried Forward</b></p> <p style="text-align: center;">Section No. 3        Bill No. 13        Plumbing and Drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

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**Brought Forward**

Polypropylene pipes

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings

Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "?" type. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

**Carried Forward**

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<b>Brought Forward</b>	<b>R</b>
<p><u>Fixing of pipes</u></p> <p>Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc, casting in, building in or suspending not exceeding 1m below suspension level</p> <p><u>Paper wrapping to pipes</u></p> <p>Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings</p> <p><u>Disinfection of water pipework</u></p> <p>Water pipework is to be disinfected at completion</p> <p><u>"?" petrolatum anti-corrosion tape</u></p> <p>Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with ?% overlaps</p> <p>Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length</p> <p><u>Laying, backfilling, bedding, etc of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p>	
<p><b>Carried Forward</b></p> <p>Section No. 3          Bill No. 13          Plumbing and Drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>	<b>R</b>

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**Brought Forward**

R

General

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends

Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site

Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

As-built drawings

Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)

**SANITARY FITTINGS**

Stainless steel fittings

1 Franke products catalogue Citimetal WB 001 single wash hand basin Code 325000 of 304 stainless steel 535mm wide wall or equal and approved

No

1

**Carried Forward**

R

Section No. 3

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Plumbing and Drainage

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		<b>Brought Forward</b>		R
2	Franke, trendline, drop-on, SEB, 1200mm x 535 mm	No	1	
3	Geberit Abalona wall hung 530mm (l) x 355mm (w) x 340mm (h)toilet with concealed cistern or equal and approved	No	1	
4	Walcro 25mm diameter BSP concealed vandal resistant DZR brass toilet flush valve with VR push-button and concealed flush pipes or equal and approved	No	1	
5	Cobra bib tap elbow action or equal and approved	No	1	
<b><u>WASTE UNIONS</u></b>				
6	32mm chromium plated basin waste union	No	1	
<b><u>TRAPS ETC</u></b>				
7	uPVC one-way vent valve, 110 mm	No	1	
8	Chromium bottle trap	No	1	
<b><u>SANITARY PLUMBING</u></b>				
<u>Testing</u>				
9	Testing waste pipe system		Item	
<b><u>WATER SUPPLIES</u></b>				
10	Excavation in earth not exceeding 1m deep for pipe trenches	m3	5	
11	Backfilling to pipe trenches	m3	4	
12	Selected granular filling in bedding under and filling around pipes	m3	1	
<b>Carried Forward</b>				R
Section No. 3 Bill No. 13 Plumbing and Drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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Brought Forward			R
	<u>Class 16 PVC-U pressure pipes with solvent welded joints</u>		
13	110mm size pipes laid in and including trenches not exceeding 1m deep	m	15
	<u>Extra over Class 16 PVC-U pressure pipes for fittings with solvent welded joints</u>		
14	110mm Bend	No	2
	<u>Disinfecting</u>		
15	Disinfecting water pipe and tank system		Item
	<u>Testing</u>		
16	Testing water pipe system		Item
	<b><u>FIRE APPLIANCES</u></b>		
17	Fire hose reel with 30m rubber hose, chromium plated stopcock, shut-off nozzle and wall bracket	No	1
18	9kg dry chemical powder fire extinguisher	No	2
19	4.5 kg carbon dioxide fire extinguisher	No	2
	<b><u>SOIL DRAINAGE</u></b>		
20	Provision for Soil Drainage		Item
	<b><u>AS-BUILT DRAWINGS</u></b>		
21	Provision of as-built drawings		Item
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 13			
Plumbing and Drainage			
<b>Project Code: ZNB 5579/2021-H</b>			
			90 000.00

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 4 - BULK PHARMACY</u></b>			
	<b><u>BILL NO 13</u></b>			
	<b><u>GLAZING</u></b>			
	<b><u>MIRRORS</u></b>			
1	Mirror 600 mm x 300 mm high	No	1	
	<b>Carried Forward to Summary of Section No. 3</b>			R
	Section No. 3			
	Bill No. 14			
	Glazing			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>				
	<b><u>BILL NO 12</u></b>				
	<b><u>TILING</u></b>				
	<u>Patterns</u>				
	Unless otherwise described, tiles shall be laid with continuous joints in both directions				
	<u>Fixing</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				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles				
	<b><u>FLOOR TILING</u></b>				
	<u>300x300x7mm Unglazed Wall tiles</u>				
1	On floors and landings	m2	13		
	<u>200x330mm White Glazed Tiles</u>				
2	On walls	m2	29		
	<b>Carried Forward to Summary of Section No. 3</b>				R
	Section No. 3				
	Bill No. 15				
	Tiling				
	<b>Project Code: ZNB 5579/2021-H</b>				

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO 14</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with "?" specifications unless otherwise described</p> <p><b><u>COLOURS</u></b></p> <p><b><u>PAINTWORK TO NEW WORK</u></b></p>			
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 3            Bill No. 16            Paintwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>			
<u>One coat alkali resistant primer and two coats PVA emulsion paint for interior use (Anti-Bacterial Painted Finish)</u>			
1	Walls	m2	142
<b><u>ON METAL SURFACES</u></b>			
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>			
2	Doors	m2	5
3	Door frames	m2	5
<b><u>On Wood</u></b>			
<u>One coat Promac, Two coats Universal undercoat and two coats of self-coat, dis-infective paint</u>			
4	Doors	m2	6
<b>Carried Forward to Summary of Section No. 3</b>			R
Section No. 3			
Bill No. 16			
Paintwork			
<b>Project Code: ZNB 5579/2021-H</b>			

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**SECTION SUMMARY - SECTION 4 - BULK PHARMACY**

Bill No		Page No	Amount
1	Alterations	213	
2	Earthworks (Provisional)	216	
3	Concrete, Formwork and Reinforcement	220	
4	Masonry	222	
5	Waterproofing	223	
6	Carpentry and Joinery	225	
7	Ceiling	227	
8	Ironmongery	230	
9	Floor Coverings	232	
10	Structural steelwork	233	
11	Metalwork	238	
12	Plastering	241	
13	Plumbing and Drainage	248	
14	Glazing	249	
15	Tiling	250	
16	Paintwork	252	
<b>Carried to Final Summary</b>			
Section No. 3			R
<b>Project Code: ZNB 5579/2021-H</b>			



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Item No	Unit	Quantity	Rate	Amount
<p><b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2", in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p> <p style="text-align: right;"><b>Carried Forward</b>            Section No. 4            Bill No. 2            Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>				R

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		Brought Forward			R
		<b><u>SITE CLEARANCE</u></b>			
		<u>Site clearance</u>			
1	Digging up and removing rubbish and debris	m2	70		
		<b><u>EXCAVATION &amp; FILLING OTHER THAN BULK</u></b>			
		<b><u>EXCAVATIONS</u></b>			
		<u>Excavation in earth not exceeding 2m deep</u> <u>Where required, excavation depth to be increased until</u> <u>adequate founding material is encountered.</u>			
2	Reduced levels under floors	m3	21		
3	Trenches and hole	m3	232		
4	Holes	m3	68		
		<u>Extra over trench and hole excavations in earth for</u> <u>excavation in</u>			
5	Soft rock	m3	35		
6	Hard rock	m3	23		
		<u>Extra over all excavations for carting away</u>			
7	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	49		
		<u>Risk of collapse of excavations</u>			
8	Sides of trench and hole excavations not exceeding 1,5m deep	m2	557		
		<u>Keeping excavations free of water</u>			
9	Keeping excavations free of all water other than subterranean water		Item		
		<b>Carried Forward</b>			
		Section No. 4			
		Bill No. 2			
		Earthworks (Provisional)			
		<b>Project Code: ZNB 5579/2021-H</b>			
					R

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		Brought Forward			R
	<u>De-watering of seepage water and water from other subterranean sources in excavations</u>				
10	Allow for pumping			Item	
	<b><u>FILLING</u></b>				
	<u>Earth filling with G5 material in 150mm layers, including haulage, compacted to 95% Mod AASHTO density</u>				
11	Under floors to make up levels	m3	40		
12	Backfilling to trenches and holes	m3	220		
	<u>Compaction of ground surfaces</u>				
13	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	70		
14	Compaction of natural or excavated ground surface of trenches and holes, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	144		
	<b><u>WEED KILLERS &amp; INSECTICIDES</u></b>				
	<u>Soil insecticide in accordance with SANS 5859</u>				
15	Under floors, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	232		
	<b><u>TESTS</u></b>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
16	"Modified AASHTO Density" test	No	17		
	<b>Carried Forward to Summary of Section No. 4</b>				R
	Section No. 4				
	Bill No. 2				
	Earthworks (Provisional)				
	<b>Project Code: ZNB 5579/2021-H</b>				

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No	Unit	Quantity	Rate	Amount
<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>				
<b><u>BILL NO 3</u></b>				
<b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b>				
<u>Cost of tests</u>				
<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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (test cubes are measured separately)</p>				
<u>Formwork</u>				
<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>				
<p>Formwork to soffits of solid slabs shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>				
<p>Formwork to soffits of slabs, beams, shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>				
<b>Carried Forward</b>			R	
Section No. 4				
Bill No. 3				
Concrete, Formwork and Reinforcement				
<b>Project Code: ZNB 5579/2021-H</b>				

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		<b>Brought Forward</b>			R
Formwork to sides of bases, pile caps, ground beams, 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"					
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>					
<u>Class 15/19 10MPa concrete</u>					
1	Surface blinding under footings and bases	m3	7		
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>					
<u>Class 29/19 25MPa</u>					
2	Strip footings	m3	31		
3	Bases	m3	6		
4	Surface beds	m3	35		
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>					
<u>Class 30/19 30MPa</u>					
5	Beams in foundation (Provisional)	m3	2		
6	Columns in foundations (Provisional)	m3	1		
7	Beams	m3	3		
8	Columns	m3	5		
9	Roof slab	m3	4		
<b>Carried Forward</b>					R
Section No. 4 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>					

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		Brought Forward			R
	<b><u>TEST CUBES</u></b>				
10	Making and testing one set of 3 cubes size:150 x 150 x 150mm for every 5m <sup>3</sup> pour	No	16		
	<b><u>CONCRETE SUNDRIES</u></b>				
	<u>Before commencing to cast new concrete (indicated by 2) the surface of the old concrete (indicated by 1) shall be cleaned and chipped to expose the aggregate and shall be kept wet for 2 hours before casting. The old concrete must be slushed with cement before casting</u>				
11	Where new concrete is cast against new concrete		Item		
	<u>Finishing top surfaces of concrete smooth with a power float</u>				
12	Surface beds	m <sup>2</sup>	232		
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>				
	<u>Smooth formwork to sides</u>				
13	C2: 230 x 230 Rectangular columns in foundations (Provisional)	m <sup>2</sup>	1		
14	C1: 300 x 300 Rectangular columns	m <sup>2</sup>	94		
	<b><u>MOVEMENT JOINTS</u></b>				
	<u>Saw-cut joints. Cut as soon as concrete has hardened sufficiently to prevent dislodgment of aggregate particles (8 to 24 hours after casting)</u>				
15	3 x 30mm Saw-cut joints in top of concrete	m	52		
	<u>Joints reamed to 10 x 10mm. A minimum of 7 days after concrete is cast</u>				
16	On surface bed	m	52		
	<b>Carried Forward</b>				R
	Section No. 4 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
	<u>Isolation joints between horizontal concrete and vertical surfaces</u>				
17	Between surface bed slab and vertical surfaces	m	291		
<b><u>REINFORCEMENT (PROVISIONAL)</u></b>					
<u>Mild steel reinforcement to structural concrete work</u>					
18	Varying diameter bars to columns	t	13.48		
<u>Fabric reinforcement</u>					
19	Type 193 fabric reinforcement fixed 30mm from top of concrete surface beds	m2	70		
20	Type 617 fabric reinforcement fixed 30mm from top of concrete surface beds	m2	6		
<b>Carried Forward to Summary of Section No. 4</b>					
Section No. 4					
Bill No. 3					
Concrete, Formwork and Reinforcement					
<b>Project Code: ZNB 5579/2021-H</b>					
					R

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b></p> <p><b><u>BILL NO 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>BRICKWORK</u></b></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>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</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><b><u>DECORATIVE BLOCKS</u></b></p> <p>Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour</p> <p><b><u>BRICKWORK</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 4            Bill No. 4            Masonry</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>			R
<b><u>FOUNDATIONS (PROVISIONAL)</u></b>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>			
1	Half brick walls	m2	33
2	One brick walls	m2	42
<b><u>SUPERSTRUCTURE</u></b>			
<u>Brickwork of NFP bricks in class II mortar</u>			
3	Half brick walls	m2	134
4	One brick walls	m2	285
5	Half brick walls in beamfilling	m2	18
6	One brick walls in beamfilling	m2	18
<u>Brickwork in piers</u>			
7	C2: 460 x 460 Brick pier with 230 x 230 RC core	m2	8
<b><u>BRICKWORK SUNDRIES</u></b>			
8	Forming toothings and bonding new brickwork to existing	m2	17
<u>Joint forming material in movement joints</u>			
9	10mm Bitumen impregnated soft board sealed with polysulphide sealant (measured elsewhere) built in vertically between skins	m	291
<u>2.5mm Galvanised brick reinforcement</u>			
10	75mm Wide reinforcement built in horizontally	m	133
11	110mm Wide reinforcement built in horizontally	m	137
<b>Carried Forward</b>			R
Section No. 4 Bill No. 4 Masonry			
<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward			R
	<u>Prestressed fabricated concrete lintels including necessary temporary supports</u>				
12	Lintels in lengths not exceeding 3m	m	59		
	<u>Butterfly Wall ties at 550mm c/c horizontally and vertically. Butterfly ties to be spaced at a minimum rate of 5no. per 1m2</u>				
13	<u>At 5no. per 1m2</u>	No	486		
	<u>Galvanised hoop iron cramps and straps</u>				
14	Hoop irons every 3rd brick course	No	126		
15	2-30 x 3mm Galvanised mild steel traps nailed to column with 4mm Dia Hilti or similar approved built in every 3rd course	No	252		
	<b><u>FACE BRICKWORK</u></b>				
	<u>222 x 106 x 73mm Facebrick. Corobrick Specialist to match new brickwork to existing</u>				
16	Extra over brickwork for face brickwork	m2	285		
17	Extra over brickwork to beamfilling for face brickwork	m2	18		
	<u>Brick-on-edge header course sills of face bricks</u>				
18	220mm Copings on top of one brick walls	m	15		
	<b>Carried Forward to Summary of Section No. 4</b>				R
	Section No. 4 Bill No. 4 Masonry				
	<b>Project Code: ZNB 5579/2021-H</b>				



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		Brought Forward			R
	<u>One layer 4mm special polyester fully bonded waterproof membrane comprising a matrix modified with polypropylene dual reinforced with non-woven polyester cloth and glass fibre tissue, laid with 75mm side and 100mm end laps</u>				
6	On flat roofs		m2	41	
<b><u>SEALING &amp; JOINT SEALANTS</u></b>					
	<u>Polysulphide sealant</u>				
7	In joints between frames and walls		m	177	
8	In expansion joints		m	32	
	<u>Approved joint sealant including backing cord, bond breaker strip</u>				
9	10 x 10mm In saw cut joints in floors		m	52	
	<u>10mm Jointex</u>				
10	In isolation joints		m	291	
<b>Carried Forward to Summary of Section No. 4</b>					
Section No. 4					
Bill No. 5					
Waterproofing					
<b>Project Code: ZNB 5579/2021-H</b>					
					R

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Item No	<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 6</u></b>				
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<u>Fixing</u>				
	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				
	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				
	<u>Decorative thermosetting plastic laminate covering</u>				
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
	<b><u>TIMBER DOORS</u></b>				
	<u>Fire doors</u>				
	Fire doors are to be in accordance with SANS 1253				
	<b><u>DOORS</u></b>				
	<u>OD-3: 900 X 2500mm solid timber single doors, hung to steel frames</u>				
1	40mm Door 900 x 2500mm high	No	17		
	<b>Carried Forward to Summary of Section No. 4</b>				
	Section No. 4				
	Bill No. 6				
	Carpentry and joinery				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	



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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Flush plastered gypsum plasterboard suspended ceilings</u></p> <p>Ceilings shall comprise 9,5mm (12,5mm?) gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><u>Flush plastered gypsum plasterboard suspended bulkheads</u></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 4        Bill No. 7        Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>				R
	<p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p><u>600mm x 1200mm acoustic OWA ceiling tiles: OWAcoustic Constellation Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.70, CAC - 33dB, Fire Classification A2-s1, d0, weight - 4.5 kg/m<sup>2</sup>, size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on OWAT24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of Galvanised hangers at centres not exceeding 1200mm, and all installed to manufacturer's instructions. OWA Shadowline W-trim, plugged and screwed at centres not exceeding 200mm.</u></p>			
1	<p>Ceilings suspended not exceeding 1m</p> <p><u>1X RHINOBOARD® 9 MM (locally manufactured, ISO 9001 &amp; 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe® D32K Cross Tee (Locally manufactured, recycled content, ISO 9001 &amp; 14001 certification) using Gyproc Sharp-point Screws 25 mm at maximum 150 mm centres. Gypframe® D37K Main Tee installed at 1200 mm centres and suspended using Gyproc Galvanised Angle 25 mm x 25 mm hangers at 1200 mm centres. Gypframe® D32K Cross Tee at 400 mm centres. Hanger to be maximum 400 mm from perimeter wall. Apply Gyproc RhinoTape® to all joints. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus®/ RhinoLite® CreteStone® (locally manufactured, Greentag Level B). Install Gypframe® Corner Bead to all external corners. Gyproc Plaster Trim 9.5 mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non combustible, lightweight Aerolite insulation material between the roof trusses and over brandering/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification with Gyproc 20mm aluminium plaster trim fixed to wall at 300 mm centres.</u></p>	m2	174	
2	<p>Ceilings suspended not exceeding 1m</p>	m2	18	
<b>Carried Forward</b>				R
<p>Section No. 4          Bill No. 7          Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>				

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
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	Brought Forward			R
	<p><u>1X RHINOBOARD® MOISTURERESISTANT™ 12.5 MM (locally manufactured, ISO 9001 &amp; 14001 certification, recycled paper content, Greentag Level B) fixed to Gypframe® D32K Cross Tee (Locally manufactured, recycled content, ISO 9001 &amp; 14001 certification) using Gyproc Sharp-point Screws 25 mm at maximum 150 mm centres. Gypframe® D37K Main Tee installed at 1200 mm centres and suspended using Gyproc Galvanised Angle 25 mm x 25 mm hangers at 1000 mm centres. Gypframe® D32K Cross Tee at 600 mm centres. Hangers to be maximum 400 mm from perimeter wall. Apply Gyproc RhinoTape® to all joints and internal corners. Install Gypframe® Corner Bead to all external corners. Cover Gyproc RhinoTape® with 1 layer of Gyproc RhinoLite® Multipurpose/ RhinoLite® Natural Plus® (locally manufactured). Wall Angle - Fix Gyproc Plaster Trim 12.5mm (locally manufactured) to the wall using fixings at 300 mm centres. Install 135 mm thick flexible, non-combustible, lightweight Aerolite® insulation material between the roof trusses and over bracing/purlins in a completed roof and ceiling system. Install in accordance with the manufacturers detail and specification with Gyproc 20mm aluminium plaster trim fixed to wall at 300 mm centres</u></p>			
3	Ceilings suspended not exceeding 1m	m2	41	
	<u>90mm Coved Gypsum Cornice</u>			
4	Pre-painted cornices, plugged	m	298	
	<b>Carried Forward to Summary of Section No. 4</b>			R
	Section No. 4 Bill No. 7 Ceilings			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>				
	<b><u>BILL NO 8</u></b>				
	<b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>				
	Fixing				
	Floor coverings, wall linings, shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings,				
	<b><u>FLOOR COVERINGS</u></b>				
	<u>200mm high porcelain skirting</u>				
1	On floors	m2	11		
	<u>Polyflor with a 50x10mm radius</u>				
2	On floors	m2	221		
	<b><u>SKIRTINGS</u></b>				
	<u>Polyflor set in cove skirting 50x100mm with 10mm radius welding</u>				
3	On floors	m	298		
	<b>Carried Forward to Summary of Section No. 4</b>				
	Section No. 4				R
	Bill No. 8				
	Floor coverings, wall linings				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT</u></b>				
	<b><u>BILL NO 6</u></b>				
	<b><u>ROOF COVERINGS</u></b>				
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<u>Corrugated 10.5 Chromadek roof sheeting 0.8mm thick galvanised Z275 steel</u>				
1	Roof covering with pitches not exceeding 25 degrees	m2	632		
	<b><u>ROOF AND WALL INSULATION</u></b>				
	<u>Two direction foil faced with reinforced scrim in the middle with non-combustible over purlin with galvanised straining wire at 275mm spacing</u>				
2	40mm glass fibre insulation over ceiling.	m2	296		
	<u>135mm AluCool insulation between purlin</u>				
3	Insulation blanket laid taut between purlins, including fixing	m2	296		
	<b>Carried Forward to Summary of Section No. 4</b>				
	Section No. 4				R
	Bill No. 9				
	Roof coverings				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No	<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 9</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<u>Proprietary items</u>				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	<b><u>LOCKS</u></b>				
	<u>Keys</u>				
	Unless otherwise described locks shall have two keys each				
	<b><u>In accordance with Door Schedule</u></b>				
1	Cylinder lock	No	27		
2	Dead lock to 1 side with thumb turn cylinder	No	17		
	<b><u>HANDLES</u></b>				
	<b><u>In accordance with Door Schedule</u></b>				
3	2 pairs of pull handles	No	2		
	<b>Carried Forward</b>				
	Section No. 4 Bill No. 10 Ironmongery				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	



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	<b>Brought Forward</b>			<b>R</b>
10	Frank Stratos STRX 611 or similar approved 1,2/ 1,5mm thick grade 304 18/10 satin stainless steel sanitary towel disposal bins (code: 359740), size 304 x 205 x 134mm deep with capacity of 6 litres, plugged and screwed to the wall with stainless steel screws.	No	4	
11	Franke Stratos STRX 672E, 1,2/1,5mm thick grade 304 18/10 satin stainless steel recessed toilet roll holders, size 304 x 156 x 140,7 mm deep for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to wall with stainless steel screws.	No	4	
<b><u>STEEL LOCKERS</u></b>				
<u>Steel lockers with standard baked enamel finish</u>				
12	Standard 3-tier steel locker 300 x 450 x 1800mm high Colour TBC	No	8	
<b>Carried Forward to Summary of Section No. 4</b>				<b>R</b>
Section No. 4				
Bill No. 10				
Ironmongery				
<b>Project Code: ZNB 5579/2021-H</b>				



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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Aluminium doors &amp; windows</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be type ? laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to (issued separately with?) these bills of quantities</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <p>1        A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</p> <p>2        A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 4        Bill No. 11        Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		<b>Brought Forward</b>			<b>R</b>
3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process				
4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked				
5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for period of not less than five years				
a					
<b><u>DOORS, WINDOWS &amp; SHOPFRONTS</u></b>					
<b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>					
<u>1,6mm Grade 304 steel frames</u>					
1	Frame for door 900 x 2500mm high		No	17	
<b><u>STEEL ROLLER SHUTTERS</u></b>					
<u>OD-4: 2500 x 2100mm Roller Shutter Door fixed to 50x50x2,5mm steel frame with 16mm diameter steel bars at 80 centres.</u>					
2	Electrically operated slatted roller shutter for 2500 x 2100mm high opening, including electrical connection and commissioning		No	2	
<b><u>ALUMINIUM WINDOWS</u></b>					
<u>Note</u>					
Refer to attached window schedules for details of windows					
		<b>Carried Forward</b>			<b>R</b>
		Section No. 4 Bill No. 11 Metalwork			
		<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
	<p><u>CREALCO SWIFT 38 extruded aluminium sections to sizes as shown to comply with 'AAAMSA' specifications. All window shopfronts sections to be designed and supplied by manufacturer to sustain wind loads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400 Part N and will remain the responsibility of manufacturer to provide the client with the documents as requested. All structural sections, compensation channels &amp; accessories per manufacturer's design. Colour: Powdercoated - Colour TBC</u></p>			
3	WP-1: 1800 x 1234mm high purpose made window	No	2	
4	WP-2: 1266 x 1234mm high purpose made window	No	7	
5	WP-3: 600 x 1234mm high purpose made window	No	4	
<b><u>ALUMINIUM DOORS</u></b>				
<u>Anodised glazed shopfront doors as per Door Schedule, complete with subframes, ironmongery, glass, sealing and fixing to brickwork or concrete</u>				
6	OD-1: 1800 x 2500mm high purpose made double door	No	2	
7	OD-2: 1800 x 2100mm high purpose made double door	No	8	
<b><u>ALUMINIUM FRAMED SHOWER CUBICLE PANELS</u></b>				
<u>"Finestra Pivot SNG" 10mm brushed steel shower doors with frames, sliding gear, pivot hinges, cleats, stops and 6mm toughened clear safety glass, plugged to tiled walls and sealed with silicone sealant</u>				
8	Swing door 900 x 1860mm high	No	4	
<b>Carried Forward to Summary of Section No. 4</b>				
Section No. 4				
Bill No. 11				
Metalwork				
<b>Project Code: ZNB 5579/2021-H</b>				
				R

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b></p> <p><b><u>BILL NO 11</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 4            Bill No. 12            Plastering</p>			R	
	<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 4        Bill No. 12        Plastering</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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Item No	<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 12</u></b>				
	<b><u>TILING</u></b>				
	<u>Patterns</u>				
	Unless otherwise described, tiles shall be laid with continuous joints in both directions				
	<u>Fixing</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				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles				
	<b><u>FLOOR TILING</u></b>				
	<u>600x600x8.5mm full bodied Porcelain Slip Resistant tiles minimum certification rating of R10/R11 with joints of 3mm.</u>				
1	On floors and landings	m2	97		
2	Skirting 100mm high	m	73		
	<u>200x330mm White Glazed Tiles</u>				
3	On walls	m2	270		
	<b>Carried Forward</b> Section No. 4 Bill No. 13 Tiling			R	
	<b>Project Code: ZNB 5579/2021-H</b>				



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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b></p> <p><b><u>BILL NO 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, and to steel pipes (adaptors for connections to copper pipes, are given separately)</p> <p>Descriptions of WC pans, slop hoppers, shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><b><u>SANITARY FITTINGS</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 4            Bill No. 14            Plumbing and drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>				<b>R</b>
<u>Ceramic</u>				
1	Sunridge Type 01 WC01. Entree Closed Couple Suite Inclusive of : · 350DZRBSAV3 Angle Valve Bretten 15x15 Std Valve Rnd Handle DZR and Braid SATAS Jaswic 350mm · E017 SV 110mm Pan Collar & Seal R/R Eurofit · All as per Sunridge sanitary ware or similar approved	No	5	
2	Sunridge Lavee Entree EWHB Wall Hung Basin with overflow Inclusive of : · L F B110 Lave Basin Fixation Bolt Set 110 x 10mm · D Z RBSAV4 Angle Valve Bretten 15x15 Qtr Turn Handle DZR · B T 01 Borrás Traditional Basin Pillar Tap15mm · B V BTR-H Brevik Bottle trap Round · B V BTR- NUT Brevik Bottle Trap Adaptor 32 x 40mm · B V 32BS Basin Waste Brevik Slotted Brass Cp 32mm A I I as per Sunridge sanitary ware or similar approved	No	7	
<u>Stainless steel</u>				
3	Franke MODEL EC: WITH FLUSH VALVE OPTION Franke Model EC Combination bedpan & wash-up sink (Right hand) with 1830 x 68mm size Product Code: 2630002.Manufactured from grade 304 (18/10 stainless steel 1.6mm (draining board) and 1,2mm thick (bowls). Unit with a 150mm high integral splash back to the rear and 15mm deep hospital bead 100mm apron to front and sides. The unit is fitted with two pressed seamless bowls with the sluice bowl having an integral flushing rim and a 38mm diameter inlet pipe for the flush valve. The waste outlet on sluice bowl is a 110mm and the rinse bowl size 610x460x230mm deep with a 40mm waste discharging into sluice bowl.	No	1	
4	Sunridge Product Code: SR-WHB-001B Inclusive of :· BV40B Sink Waste Brevik Brass Cp 40mm· BVBTR-NUT Brevik Trap Adaptor 32x40mm· BVBTR Brevik Bottle Trap Round. · BMM60 Borrás Medico Sink Mixer Deck Type Spout· BMM60W Borrás Medico Wall Type Legs. · DZRBSAV4 Angle Valve Bretten 15x15 Qtr Rnd Handle DZR· All as per Sunridge sanitary ware .	No	3	
<b>Carried Forward</b>				<b>R</b>
Section No. 4 Bill No. 14 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
5	<p>Sunridge Brescia Single Bowl Sink 860x500mm with 52mm Waste Hole Product Code:BS860            Inclusive of :BV40B Sink Waste Brevik Brass Cp 40mm.TPPT404 Trap P 40x40mm &amp; Clamps BT5 Traditional Sink Mixer Deck Type Traditional DZRBSAV4 Angle Valve Bretten 15x15 Qtr Rnd Handle DZR. (Left Handed)</p> <p><u>Wash hand basin according to Sanitary Schedule</u></p>	No	2	
6	<p>Vaal Sanitaryware Vitreous China 510 x 400mm semi-rectangular 'solar 510' medical basin with no tapholes, overflow or chainstay hole. Colour White, with chrome plated bottle traps as Cobra 340.</p> <p><u>Water closets according to Sanitary Schedule</u></p>	No	4	
7	<p>Geberit Abalona wall hung 530 x 355 x 340mm toilet with concealed cistern</p> <p><u>Toilet fittings</u></p>	No	4	
8	<p>Sunridge Paper Towel Dispenser. manufactured from grade 304 stainless steel satin finish. The towel dispenser is ideal for high traffic restrooms. Unit to be mounted against the wall and supplied with installation kit. Dimensions 38cm X 29 x 12cm. Quoted without paper towels. takes maximum of 600 paper towels. Sunridge s/s or similar approved folded paper towel dispenser. Paper towel dispenser to have no sensors. Dimensions: 38 x 29 x 12cm. to be fixed against the wall.</p>	No	9	
9	<p>Sunridge Soap Dispenser. Product Code: SR-SOAP-DIS manufactured from Grade 304 stainless steel satinmfinish. The soap dispenser incorporates a replaceable and refillable sachet into the container to replace when soap liquid is finished. Unit can be mounted to the wall and the cylinder have a lock with a key and supplied with mounting kit for installation.            · All as per Sunridgebnsanitary ware or similar approved</p>	No	9	
<b>Carried Forward</b>				R
Section No. 4 Bill No. 14 Plumbing and drainage  <b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
10	Sunridge Waste Bin.offers the folded paper towel dispenser manufactured from grade 304 stainless steel satin finish. The towel dispenser is ideal for high traffic restrooms. Unit to be mounted against the wall and supplied with installation kit. Dimensions 38cm X 29 x 12cm. Quoted without paper towels. takes maximum of 600 paper towels.		No	9	
11	Sunridge Toilet Roll Holder Manufactured from grade 304 stainless steel satin finish surface. The unit takes only 3 toilet rolls to fill. It has a key and lock on top of the unit to lock and replace paper. Easy to mount to the wall and supplied with installation kit included . Dimensions: 14cm x 13cm x 41cm Qouted in satin finish stainless steel.		No	5	
<b><u>TRAPS</u></b>					
<u>Traps according to Sanitary Schedule</u>					
12	<u>Cobra shower P trap with chrome plated grating 40mm. Brass 373</u>		No	4	
<b><u>TAPS &amp; VALVES</u></b>					
<u>Taps according to Sanitary Schedule</u>					
13	Cobra bib tap elbow action		No	15	
14	Cobra vandal proof showerhead		No	4	
15	Cobra Focus single lever shower mixer chrome 2 x 1/2 inch BSP female iron inlet and 2 x female iron outlet connection ends		No	4	
		<b>Carried Forward</b>			R
		Section No. 4 Bill No. 14 Plumbing and drainage			
		<b>Project Code: ZNB 5579/2021-H</b>			





LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b></p> <p><b><u>BILL NO 15</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with the architect's specifications unless otherwise described</p> <p><b><u>PAINTWORK TO NEW WORK</u></b></p> <p><b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 4            Bill No. 16            Paintwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>			R
	<u>One undercoat and two final coats PVA (Anti-Bacterial Painted finish)</u>		
1	Walls	m2	832
	<b><u>ON INTERNAL PLASTERBOARD SURFACES</u></b>		
	<u>One undercoat and two final coats, PVAe</u>		
2	Ceilings ("White" colour group)	m2	299
	<b><u>ON EXTERNAL PLASTERED SURFACES</u></b>		
3	Parapet wall	m2	107
	<b><u>ON METAL SURFACES</u></b>		
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>		
4	Door frames	m2	12
	<b><u>ON WOOD SURFACES</u></b>		
	<u>One coat primer and two coats premium quality polyurethane enamel paint</u>		
5	Doors	m2	32
	<b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b>		
	<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>		
	<u>One undercoat and two final coats PVA (Anti-Bacterial Painted finish)</u>		
6	Walls	m2	605
	<b><u>BUDGETARY ALLOWANCE</u></b>		
7	Allow the Budgetary Allowance for painting previously painted work		Item
<b>Carried Forward to Summary of Section No. 4</b>			R
Section No. 4			
Bill No. 16			
Paintwork			
<b>Project Code: ZNB 5579/2021-H</b>			

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**SECTION SUMMARY - SECITION 5 - OUTSOURCE LAUNDRY**

<b>Bill No</b>		<b>Page No</b>	<b>Amount</b>
1	Alterations	254	
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3	Concrete, Formwork and Reinforcement	261	
4	Masonry	264	
5	Waterproofing	266	
6	Carpentry and joinery	267	
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8	Floor coverings, wall linings	272	
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10	Ironmongery	276	
11	Metalwork	280	
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13	Tiling	285	
14	Plumbing and drainage	290	
15	Glazing	291	
16	Paintwork	293	
<b>Carried to Final Summary</b>			
Section No. 4			
<b>Project Code: ZNB 5579/2021-H</b>			
			R

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b>				
	<b><u>BILL NO. 1</u></b>				
	<b><u>ALTERATIONS</u></b>				
	<b><u>NEW WORK CHIEFLY INSIDE EXISTING BUILDING(S)</u></b>				
	<i>New work chiefly inside existing building(s) shall be given in accordance with the principles laid down in the relevant trades</i>				
1	Budgetary allowance for demolitions		Item		120 000.00
2	Budgetary allowance to enable continuity of existing operations		Item		30 000.00
	<b>Carried Forward to Summary of Section No. 5</b>				
				R	
	Section No. 5				
	Bill No. 1				
	Alterations				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 5 - NEW MAIN LAUNDRY LAUNDRY</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2", in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>				
	<p><b>Carried Forward</b></p> <p>Section No. 5            Bill No. 2            Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

**LADYSMITH HOSPITAL  
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		Brought Forward			R
<b><u>EXCAVATION &amp; FILLING OTHER THAN BULK</u></b>					
<b><u>EXCAVATIONS</u></b>					
1	Trenches	m3	40		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
2	Soft rock	m3	4		
3	Hard rock	m3	2		
<u>Risk of collapse of excavations</u>					
4	Sides of trench and hole excavations not exceeding 1,5m deep	m2	85		
<u>Keeping excavations free of water</u>					
5	Keeping excavations free of all water other than subterranean water			Item	
<b><u>FILLING</u></b>					
<u>Earth filling with G5 material in 150mm layers, including haulage, compacted to 95% Mod AASHTO density</u>					
6	Backfilling to trenches	m3	28		
<u>Compaction of ground surfaces</u>					
7	Compaction of natural or excavated ground surface of trenches, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	49		
<b><u>WEED KILLERS &amp; INSECTICIDES</u></b>					
<u>Soil insecticide in accordance with SANS 5859</u>					
8	To bottoms and sides of trenches	m2	123		
		<b>Carried Forward</b>			R
		Section No. 5			
		Bill No. 2			
		Earthworks (Provisional)			
		<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

	<b>Brought Forward</b>			R
9	Under floors, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	74	
	<b><u>TESTS</u></b>			
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
10	"Modified AASHTO Density" test	No	4	
<b>Carried Forward to Summary of Section No. 5</b>				
Section No. 5				
Bill No. 2				
Earthworks (Provisional)				
<b>Project Code: ZNB 5579/2021-H</b>				
				R

**LADYSMITH HOSPITAL  
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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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> <p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 5</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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<b>Brought Forward</b>			R
	<u>Before commencing to cast new concrete (indicated by 2) the surface of the old concrete (indicated by 1) shall be cleaned and chipped to expose the aggregate and shall be kept wet for 2 hours before casting. The old concrete must be slushed with cement before casting</u>		
7	Where new concrete is cast against new concrete		Item
	<u>Finishing top surfaces of concrete smooth with a power float</u>		
8	Surface beds	m2	399
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>		
	<u>Smooth formwork to sides</u>		
9	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	2
10	Beams propped up exceeding 3m and not exceeding 3.5m high	m2	40
11	To sides of concrete plinths	m2	6
	<b><u>MOVEMENT JOINTS</u></b>		
	<u>Seal Joint with approved joint sealant with backing cord and bond breaker strip</u>		
12	On surface bed slab	m	17
	<u>Saw-cut joints. Cut as soon as concrete has hardened sufficiently to prevent dislodgment of aggregate particles (8 to 24 hours after casting)</u>		
13	3 x 30mm Saw-cut joints in top of concrete	m	170
	<u>Isolation joints between horizontal concrete and vertical surfaces</u>		
14	Between surface bed slab and vertical surfaces	m	144
	<b>Carried Forward</b>		
	Section No. 5 Bill No. 3 Concrete, Formwork and Reinforcement		
	<b>Project Code: ZNB 5579/2021-H</b>		
			R





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		<b>Brought Forward</b>			R
2	One brick walls		m2	284	
3	Half brick walls in beamfilling		m2	11	
4	One brick walls in beamfilling		m2	38	
<b><u>BRICKWORK SUNDRIES</u></b>					
5	Forming toothings and bonding new brickwork to existing		m2	8	
<u>Joint forming material in movement joints</u>					
6	10mm Bitumen impregnated soft board sealed with polysulphide sealant (measured elsewhere) built in vertically between skins		m	350	
<u>2,5mm Galvanised brick reinforcement</u>					
7	75mm Wide reinforcement built in horizontally		m	331	
8	110mm Wide reinforcement built in horizontally		m	1 135	
<u>Butterfly Wall ties at 550mm c/c horizontally and vertically. Butterfly ties to be spaced at a minimum rate of 5no. per 1m2</u>					
9	<u>At 5no. per 1m2</u>		No	525	
<u>Galvanised hoop iron cramps and straps</u>					
10	Hoop irons every 3rd brick course		No	210	
11	2-30 x 3mm Galvanised mild steel traps nailed to column with 4mm Dia Hilti or similar approved built in every 3rd course		No	420	
<b><u>FACE BRICKWORK</u></b>					
		<b>Carried Forward</b>			R
		Section No. 5 Bill No. 4 Masonry			
		<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward			R
		<u>222 x 106 x 73mm Facebrick.</u> <u>Corobrick Specialist to match new brickwork to existing</u>			
12	Extra over brickwork for face brickwork	m2	249		
13	Extra over brickwork to beamfilling for face brickwork	m2	14		
<p><b>Carried Forward to Summary of Section No. 5</b></p> <p>Section No. 5            Bill No. 4            Masonry</p>				R	
<p><b>Project Code: ZNB 5579/2021-H</b></p>					



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		Brought Forward			R
6	<u>10mm Jointex</u> In isolation joints		m	152	
<b>Carried Forward to Summary of Section No. 5</b>					R
		Section No. 5			
		Bill No. 5			
		Waterproofing			
<b>Project Code: ZNB 5579/2021-H</b>					

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b>				
	<b><u>BILL NO 4</u></b>				
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<u>Fixing</u>				
	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				
	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				
	<u>Decorative thermosetting plastic laminate covering</u>				
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
	<b><u>TIMBER DOORS</u></b>				
	<u>Fire doors</u>				
	Fire doors are to be in accordance with SANS 1253				
	<b><u>DOORS</u></b>				
	<u>LD-04: 900 X 2500 X 40mm solid core timber single doors, hung to steel frames</u>				
1	40mm Door 900 x 2500mm high	No	11		
	<b>Carried Forward to Summary of Section No. 5</b>				
	Section No. 5				
	Bill No. 6				
	Carpentry and joinery				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b></p> <p><b><u>BILL NO 5</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></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>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions are to be galvanised in accordance with SANS 121</p> <p><b><u>SUSPENDED CEILINGS</u></b></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 5            Bill No. 7            Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Flush plastered gypsum plasterboard suspended ceilings</u></p> <p>Ceilings shall comprise 9,5mm (12,5mm?) gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><u>Flush plastered gypsum plasterboard suspended bulkheads</u></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 5        Bill No. 7        Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		Brought Forward			R
	<p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p><u>600mm x 1200mm acoustic OWA ceiling tiles: OWAacoustic Constellation Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.70, CAC - 33dB, Fire Classification A2-s1, d0, weight - 4.5 kg/m<sup>2</sup>, size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on OWAT24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of Galvanised hangers at centres not exceeding 1200mm, and all installed to manufacturer's instructions. OWA Shadowline W-trim, plugged and screwed at centres not exceeding 200mm.</u></p>				
1	Ceilings suspended not exceeding 1m		m2	399	
	<u>90mm Coved Gypsum Cornice</u>				
2	Pre-painted cornices, plugged		m	350	
<b>Carried Forward to Summary of Section No. 5</b>					R
		Section No. 5			
		Bill No. 7			
		Ceilings			
<b>Project Code: ZNB 5579/2021-H</b>					



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	Brought Forward			R
	<p><u>EPOXY: Polyscreed PU 1500 SL</u>  <u>Polyscreed SL is a high-performance polyurethane, self-smoothing floor screed providing exceptional physical and chemical resistance in demanding environments subject to medium traffic. It provides a smooth, yet non-slip, protective floor finish ideal for applications in manufacturing industries where high performance and durability is required. Preparation: Wash and degrease floor areas. Allow to dry. Substrates must free of oil, fat, grease, dust, and loose friable materials. Cut square areas where substrate repairs are needed, prime and fill with Solidscreed 90 to height of floor area. Allow to dry. Cut back shoulder of joints to 25mm, removing friable and loose substrate. Reinststate with resin mortar. Allow to cure. Mechanically prepare all surfaces via diamond grinding to create a key. Cut anchor grooves. Sweep dust and loose debris followed by vacuuming, to obtain a dry and dust-free surface.</u>  <u>Application: Prime the prepared surface Polyscreed PU Primer at 4sqm per L and scatter with 0.400grams of scatter sand. Allow primer to cure for at least 16 hours prior to application. Sweep and vacuum.</u>  <u>Pour out the mix onto the demarcated area and pull the mix with a notched rake at a nominal thickness of 2mm. Spike roll to remove trowel marks and mix join regions. Allow the surface to settle and cure.</u>  <u>*Cut and seal joints.</u></p>			
2	On floors	m2	359	
	<b><u>SKIRTINGS</u></b>			
	<u>75mm high covered FLOWCRETE Epoxy skirting</u>			
3	On walls	m	285	
	<u>100mm high Grano skirting</u>			
4	On walls	m	49	
	<b>Carried Forward to Summary of Section No. 5</b>			R
	Section No. 5			
	Bill No. 8			
	Floor coverings, wall linings			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b>				
	<b><u>BILL NO 7</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<u>Proprietary items</u>				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	<b><u>LOCKS</u></b>				
	<u>Keys</u>				
	Unless otherwise described locks shall have two keys each				
	<b><u>In accordance with Door Schedule</u></b>				
1	Cylinder lock	No	17		
2	Dead lock to 1 side with thumb turn cylinder	No	11		
	<b><u>HANDLES</u></b>				
	<b><u>In accordance with Door Schedule</u></b>				
3	2 pairs of pull handles	No	2		
	<b>Carried Forward</b>				
	Section No. 5				
	Bill No. 9				
	Ironmongery				
	<b>Project Code: ZNB 5579/2021-H</b>				R

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

	Brought Forward			R
4	Approved lever handles	No	15	
	<b><u>CLADDING</u></b>			
	<b><u>In accordance with Door Schedule</u></b>			
	<u>900mm high Grade 304 stainless steel cladding</u>			
5	On LD-4: 900 x 2500 40mm solid core timber single door	No	11	
	<b><u>DOOR CLOSERS</u></b>			
	<b><u>In accordance with Door Schedule</u></b>			
6	Double action transom closer with shoe strap	No	6	
7	90 degrees hold open door closer on inside	No	6	
	<b><u>SUNDRIES</u></b>			
	<b><u>In accordance with Door Schedule</u></b>			
8	Wall mounted stop	No	11	
<b>Carried Forward to Summary of Section No. 5</b>				R
Section No. 5				
Bill No. 9				
Ironmongery				
<b>Project Code: ZNB 5579/2021-H</b>				



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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Aluminium doors &amp; windows</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be type ? laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to (issued separately with?) these bills of quantities</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <p>1        A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</p> <p>2        A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 5        Bill No. 10        Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		<b>Brought Forward</b>			R
	3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
	4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
	5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years			
<b><u>DOORS, WINDOWS &amp; SHOPFRONTS</u></b>					
<b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>					
<u>1,6mm Grade 304 steel frames</u>					
1		Frame for door 900 x 2500mm high	No	11	
<b><u>STEEL ROLLER SHUTTERS</u></b>					
<u>OD-4: 2500 x 2100mm Roller Shutter Door fixed to 50x50x2,5mm steel frame with 16mm diameter steel bars at 80 centres.</u>					
2		Electrically operated slatted roller shutter for 2500 x 2100mm high opening, including electrical connection and commissioning	No	1	
<b><u>ALUMINIUM WINDOWS</u></b>					
<u>Note</u>					
Refer to attached window schedules for details of windows					
		<b>Carried Forward</b>			R
		Section No. 5 Bill No. 10 Metalwork			
		<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
<p><u>CREALCO SWIFT 38 extruded aluminium sections to sizes as shown to comply with 'AAAMSA' specifications. All window shopfronts sections to be designed and supplied by manufacturer to sustain wind loads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400 Part N and will remain the responsibility of manufacturer to provide the client with the documents as requested. All structural sections, compensation channels &amp; accessories per manufacturer's design. Colour: Powdercoated - Colour TBC</u></p>			
3	CW11: 4500 x 3000mm high purpose made curtain wall	m2	14
4	CW12: 2500 x 3000mm high purpose made window	m2	8
5	CW13: 6002 x 3000mm high purpose made window	m2	18
6	CW14: 3552 x 3000mm high purpose made window	m2	11
7	CW15: 6500 x 3000mm high purpose made curtain wall	m2	20
8	CW16: 3126 x 3000mm high purpose made window	m2	9
9	CW17: 3577 x 2020mm high purpose made window	m2	7
10	CW18: 3200 x 2056mm high purpose made window	m2	7
<b><u>ALUMINIUM DOORS</u></b>			
<p><u>Anodised glazed shopfront doors as per Door Schedule, complete with subframes, ironmongery, glass, sealing and fixing to brickwork or concrete</u></p>			
11	LD-1: 1800 x 2500mm high purpose made double door	No	2
12	LD-2: 900 x 2500mm high purpose made double door	No	3
13	LD-3: 1800 x 2100mm high purpose made double door	No	1
<b><u>ALUMINIUM FRAMED SHOWER CUBICLE PANELS</u></b>			
<b>Carried Forward</b>			R
Section No. 5 Bill No. 10 Metalwork			
<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward			R
	<u>"Finestra Pivot SNG" 10mm brushed steel shower doors with frames, sliding gear, pivot hinges, cleats, stops and 6mm toughened clear safety glass, plugged to tiled walls and sealed with silicone sealant</u>				
14	Swing door 900 x 1860mm high	No		2	
	<b><u>STEEL LOCKERS</u></b>				
	<u>Steel lockers with standard baked enamel finish</u>				
15	Standard 3-tier steel locker 300 x 450 x 1800mm high Colour TBC	No		10	
<b>Carried Forward to Summary of Section No. 5</b>					
Section No. 5					
Bill No. 10					
Metalwork					
<b>Project Code: ZNB 5579/2021-H</b>					
					R

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Item No		Unit	Quantity	Rate	Amount
<b><u>SECTION 5 - OUTSOURCE LAUNDRY</u></b>					
<b><u>BILL NO 12</u></b>					
<b><u>TILING</u></b>					
<u>Patterns</u>					
Unless otherwise described, tiles shall be laid with continuous joints in both directions					
<u>Fixing</u>					
Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors shall be deemed to include 1:3 plaster bedding					
Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat					
Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles					
<b><u>FLOOR TILING</u></b>					
<u>300x300x7mm full bodied Porcelain Slip Resistant tiles</u>					
1	On floors and landings	m2	25		
<u>200 x 330 x 7mm Thick Unglazed porcelain tiles with adhesive to screeds including grouting height.</u>					
2	On walls	m2	85		
<b><u>SKIRTING</u></b>					
<b>Carried Forward</b>				R	
Section No. 5 Bill No. 11 Tiling					
<b>Project Code: ZNB 5579/2021-H</b>					

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	<b>Brought Forward</b>			<b>R</b>
	<u>300 x 100mm high porcelain skirting with 4mm joints.</u>			
3	On walls	m	24	
<b>Carried Forward to Summary of Section No. 5</b>				
Section No. 5				
Bill No. 11				
Tiling				
<b>Project Code: ZNB 5579/2021-H</b>				<b>R</b>

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Item No	<b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 9</u></b>				
	<b><u>PLASTERING</u></b>				
	<u>Method</u>				
	The method to be used shall be either the monolithic method or the bonded method				
	<u>Preparation</u>				
	Remove any oil, grease and mould agents with PLASCON Aquasolv Degreaser (GR1). Prime entire area with PLASCON Plaster Primer (UC 56).				
	<b><u>INTERNAL PLASTER</u></b>				
	<u>12mm thick cement steel trowelled plaster finish (for paint), on brickwork</u>				
1	On walls	m2	1 381		
	<b><u>CORNER PROTECTORS</u></b>				
2	Stainless Steel Wall Corner Protectors to architect's specification	m	3		
	<b>Carried Forward to Summary of Section No. 5</b>				
	Section No. 5 Bill No. 12 Plastering				
	Project Code: ZNB 5579/2021-H				
				R	

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No	Unit	Quantity	Rate	Amount
<b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b>				
<b><u>BILL NO 11</u></b>				
<b><u>PLUMBING AND DRAINAGE</u></b>				
<u>General</u>				
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, are given separately)				
Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				
Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site				
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, are given separately)				
Descriptions of WC pans, slop hoppers, shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
<u>As-built drawings</u>				
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)				
<b><u>SANITARY FITTINGS</u></b>				
<b>Carried Forward</b>				R
Section No. 5				
Bill No. 13				
Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
<u>Stainless steel</u>				
1	Wall mounted toilet holder with a spindle rod inside the unit to roll off the paper easily and waste less. Manufactured from grade 304 stainless steel satin finish surface.	No	4	
2	20l slimline bin that fits in easily next to any toilet. Pedestal operation, limits direct contact with the bin. polypropylenem plastic Top opening lib, a flute chute and front opening lid,	No	4	
3	Folded paper towel dispenser manufactured from grade 304 stainless steel satin finish	No	7	
4	Sanitary Bin - Stainless Steel waste bin 20 litre, Product Code: SR-BIN-PED-SS manufactured from Grade 304 with a satin finish place on ground.	No	4	
5	Mounted soap dispenser, Product Code: SR-SOAP-DIS manufactured from Grade 304 stainless steel satin finish. The soap dispenser incorporates a replaceable and refillable sachet into the container to replace when soap liquid is finished.	No	9	
6	Wash up sink Code: SR-WHB-001B Inclusive of : · BV40B Sink Waste Brevik Brass Cp 40mm	No	2	
7	MODEL EC: WITH FLUSH VALVE OPTION Franke Model EC Combination bedpan & wash-up sink (Right hand) with 1830 x 68mm size Product Code: 2630002. Manufactured from grade 304 (18/10 stainless steel 1.6mm (draining board) and 1,2mm thick (bowls)	No	3	
8	Model BBR 6 Stainless Steel Bedpan and Bottle Rack with Overall Size 960mm x 350mm x 505mm as per Franke	No	3	
9	ECCS: Entree Closed Couple Suite Inclusive of 350DZRBSAV3 Angle Valve Bretten 15x15 Std Valve Rnd Handle DZR and Braid SATAS Jaswic 350mm, and SV 110mm Pan Collar & Seal R/R Eurofit	No	4	
<b>Carried Forward</b>				R
Section No. 5 Bill No. 13 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
10	Sunridge Lavee Entree EWHB: Wall Hung Basin with Overflow Inclusive of Angle Valve Bretten 15x15 Qtr Turn Handle DZR	No	6	
11	Basin Waste Brevik Slotted Brass Cp 32mm	No	6	
12	Lave Entree Medical basin Wall Hung and complete with Lave Basin Fixation bolt Set 110x10cm.	No	3	
13	Basin waste Brevik Unslotted brass Cp 32mm.	No	3	
14	FRANKE TRENDLINE stainless steel unbrushed drop on sink Product Code: 711 SEB. 900x535mm. Left hand or Right hand as indicated on plan.	No	1	
15	Brescia Double Bowl Sink 1160x500mm with 52mm Waste Hole Product Code:BS1160 Inclusive of : · TPWTC600 Trap Sink Combo 40x600mm & 5 Clamp. · BT60 Traditional Sink Mixer Wall Type Traditional	No	1	
<u>Wash hand basin according to Sanitary Schedule</u>				
16	Vaal Sanitaryware Vitreous China 510 x 400mm semi-rectangular 'solar 510' medical basin with no tapholes, overflow or chainstay hole. Colour White, with chrome plated bottle traps as Cobra 340.	No	4	
<u>Water closets according to Sanitary Schedule</u>				
17	Geberit Abalona wall hung 530 x 355 x 340mm toilet with concealed cistern	No	4	
<b><u>TRAPS</u></b>				
<u>Traps according to Sanitary Schedule</u>				
18	BVBTR Brevik Bottle Trap Round.	No	2	
19	Brevik Trap Adaptor 32x40mm.	No	2	
20	Brevik Bottle Trap Small Standard	No	6	
<b>Carried Forward</b>				R
Section No. 5 Bill No. 13 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				



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	<b>Brought Forward</b>			<b>R</b>
28	Franke Stratos STRX 672E, 1,2/1,5mm thick grade 304 18/10 satin stainless steel recessed toilet roll holders, size 304 x 156 x 140,7 mm deep for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to wall with stainless steel screws.	No	5	
	<b><u>SOIL DRAINAGE</u></b>			
29	Provision for Soil Drainage		Item	175 000.00
	<b><u>AS-BUILT DRAWINGS</u></b>			
30	Provision of as-built drawings		Item	
<b>Carried Forward to Summary of Section No. 5</b>				
Section No. 5				
Bill No. 13				
Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				
				<b>R</b>

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 6 - NEW MAIN LAUNDRY</u></b></p> <p><b><u>BILL NO 12</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p> <p><u>Previously painted plastered surfaces</u></p> <p>Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth</p> <p><u>Previously painted metal surfaces</u></p> <p>Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal</p> <p><u>Previously painted wood surfaces</u></p> <p>Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth</p> <p><b><u>PAINT SPECIFICATIONS</u></b></p> <p>All painting shall be done in accordance with the architect's specifications unless otherwise described</p> <p><b><u>PAINTWORK TO NEW AND EXISTING WALLS</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 5            Bill No. 14            Paintwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		Brought Forward		R
<u>Architect's Drawing Number: Plan, Elevation, Section as Mandatory.</u>				
<u>Schedule</u>				
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>				
<u>One undercoat and two final coats PVA (Anti-Bacterial Painted finish)</u>				
1	Walls	m2	1 075	
<b><u>ON INTERNAL PLASTERBOARD SURFACES</u></b>				
<u>One undercoat and two final coats, PVAe</u>				
2	Ceilings ("White" colour group)	m2	417	
<b><u>ON METAL SURFACES</u></b>				
<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
3	Door frames	m2	15	
<b><u>ON WOOD SURFACES</u></b>				
<u>One coat primer and two coats premium quality polyurethane enamel paint</u>				
4	Doors	m2	50	
<b><u>BUDGETARY ALLOWANCE</u></b>				
5	Allow the Budgetary Allowance for painting previously painted work		Item	
<b>Carried Forward to Summary of Section No. 5</b>				R
Section No. 5				
Bill No. 14				
Paintwork				
<b>Project Code: ZNB 5579/2021-H</b>				

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**SECTION SUMMARY - SECTION 6 - NEW MAIN LAUNDRY**

Bill No		Page No	Amount
1	Alterations	295	
2	Earthworks (Provisional)	298	
3	Concrete, Formwork and Reinforcement	302	
4	Masonry	305	
5	Waterproofing	307	
6	Carpentry and joinery	308	
7	Ceilings	311	
8	Floor coverings, wall linings	313	
9	Ironmongery	315	
10	Metalwork	320	
11	Tiling	322	
12	Plastering	323	
13	Plumbing and drainage	328	
14	Paintwork	330	
<b>Carried to Final Summary</b>			
Section No. 5			
<b>Project Code: ZNB 5579/2021-H</b>			
			R

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Item No	<b><u>SECTION 7 - MAIN PHARMACY</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>				
	<b><u>ALTERATIONS</u></b>				
	<b><u>NEW WORK CHIEFLY INSIDE EXISTING BUILDING(S)</u></b>				
	<i>New work chiefly inside existing building(s) shall be given in accordance with the principles laid down in the relevant trades</i>				
1	Budgetary allowance for demolitions		Item		150 000.00
2	Budgetary allowance to enable continuity of existing operations		Item		100 000.00
	<b>Carried Forward to Summary of Section No. 6</b>			R	
	Section No. 6 Bill No. 1 Alterations				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 7 - MAIN PHARMACY</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities.</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2", in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>				
	<p><b>Carried Forward</b></p> <p>Section No. 6            Bill No. 2            Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		Brought Forward		R
<b><u>EXCAVATIONS</u></b>				
<u>Excavation in earth not exceeding 2m deep. Where required, excavation depth to be increased until adequate founding material is encountered.</u>				
1	Trenches	m3	29	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
2	Soft rock	m3	3	
3	Hard rock	m3	2	
<u>Extra over all excavations for carting away</u>				
4	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	12	
<u>Risk of collapse of excavations</u>				
5	Sides of trench and hole excavations not exceeding 1,5m deep	m2	90	
<u>Keeping excavations free of water</u>				
6	Keeping excavations free of all water other than subterranean water		Item	
<u>De-watering of seepage water and water from other subterranean sources in excavations</u>				
7	Allow for pumping		Item	
<b><u>FILLING</u></b>				
<u>Earth filling with G5 material in 150mm layers, including haulage, compacted to 95% Mod AASHTO density</u>				
8	Backfilling to trenches	m3	38	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 2 Earthworks (Provisional)				
<b>Project Code: ZNB 5579/2021-H</b>				

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward			R
		<u>Compaction of ground surfaces</u>			
9	Compaction of natural or excavated ground surface of trenches, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	132		
		<b><u>WEED KILLERS &amp; INSECTICIDES</u></b>			
		<u>Soil insecticide in accordance with SANS 5859</u>			
10	Under floors, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	74		
11	To bottoms and sides of trenches	m2	129		
		<b><u>TESTS</u></b>			
		<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
12	"Modified AASHTO Density" test	No	12		
		<b>Carried Forward to Summary of Section No. 6</b>			
		Section No. 6			
		Bill No. 2			
		Earthworks (Provisional)			
		<b>Project Code: ZNB 5579/2021-H</b>			
				R	

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 4 - BULK PHARMACY</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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> <p>Formwork to soffits of solid slabs shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p> <p>Formwork to soffits of slabs, beams, shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described</p>			
	<p><b>Carried Forward</b></p> <p>Section No. 6</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>		R	

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<b>Brought Forward</b>			R
Formwork to soffits of slabs, beams, shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described			
Formwork to sides of bases, pile caps, ground beams, 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"			
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>15MPa/19mm concrete</u>			
1	Surface blinding under surface beds	m3	40
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>			
<u>15MPa/19mm concrete</u>			
2	Strip footings	m3	19
<u>25MPa/19mm concrete</u>			
3	Surface beds	m3	10
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>			
<u>Class 30/19 30MPa</u>			
4	Isolated beams	m3	5
<b><u>TEST CUBES</u></b>			
5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6
<b>Carried Forward</b>			R
Section No. 6 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
		<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>		
		<u>Smooth formwork to sides</u>		
6	Beams propped up exceeding 3m and not exceeding 3.5m high	m2	9	
		<b><u>MOVEMENT JOINTS</u></b>		
		<u>Isolation joints</u>		
7	Not exceeding 300mm high to edges of surface beds	m	62	
		<u>Saw-cut joints</u>		
8	Seal joint with approved joint sealant with backing cord and bond breaker strip	m	10	
		<b><u>REINFORCEMENT (Provisional)</u></b>		
		<u>Fabric Reinforcement</u>		
9	Fabric reinforcement in concrete surface bed slab	m2	74	
		<u>High Tensile steel reinforcement</u>		
10	Various Diameter bar	t	2.15	
<b>Carried Forward to Summary of Section No. 6</b>				
Section No. 6				
Bill No. 3				
Concrete, Formwork and Reinforcement				
<b>Project Code: ZNB 5579/2021-H</b>				
		R		

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 7 - MAIN PHARMACY</u></b></p> <p><b><u>BILL NO 4</u></b></p> <p><b><u>MASONRY</u></b></p> <p><b><u>BRICKWORK</u></b></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>Bagged and sealed walls</u></p> <p>Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats bitumen emulsion waterproofing coating</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><b><u>DECORATIVE BLOCKS</u></b></p> <p>Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour</p> <p><b><u>BRICKWORK</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 6            Bill No. 4            Masonry</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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	Brought Forward			R
	<b><u>FACE BRICKWORK</u></b>			
	<u>222 x 106 x 73mm Facebrick.</u>			
	<u>Corobrick Specialist to match new brickwork to existing</u>			
12	Extra over brickwork for face brickwork	m2	89	
13	Extra over brickwork to beamfilling for face brickwork	m2	7	
<b>Carried Forward to Summary of Section No. 6</b>				
Section No. 6				
Bill No. 4				
Masonry				
<b>Project Code: ZNB 5579/2021-H</b>				





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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 7 - MAIN PHARMACY</u></b>				
	<b><u>BILL NO 6</u></b>				
	<b><u>CARPENTRY AND JOINERY</u></b>				
	<u>Fixing</u>				
	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				
	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				
	<u>Decorative thermosetting plastic laminate covering</u>				
	Laminate covering shall be glued under pressure and edge strips of same shall be butt jointed at junctions with adjacent similar finish				
	Ref: Architect's drawing No. A - 401 MAIN PHARMACY BLOCK A DOOR SCHEDULE_Rev A				
	<b><u>TIMBER DOORS</u></b>				
	<u>Fire doors</u>				
	Fire doors are to be in accordance with SANS 1253				
1	DP-4 813 x 2032mm high solid timber single fire door	No	1		
	<b><u>DOORS</u></b>				
	<u>PD-3: 900 X 2500 X 40mm solid core timber single doors, hung to steel frames</u>				
2	40mm Door 900 x 2500mm high	No	9		
	<b>Carried Forward to Summary of Section No. 6</b>				R
	Section No. 6				
	Bill No. 6				
	Carpentry and joinery				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 7 - MAIN PHARMACY</u></b></p> <p><b><u>BILL NO 7</u></b></p> <p><b><u>CEILING, PARTITIONS AND ACCESS FLOORING</u></b></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>Unless otherwise described bulkheads shall be deemed to be horizontal along the length</p> <p><u>Steel components</u></p> <p>All steel components for ceilings, partitions are to be galvanised in accordance with SANS 121</p> <p><b><u>SUSPENDED CEILINGS</u></b></p> <p><u>SUPPLEMENTARY PREAMBLES</u></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 6            Bill No. 7            Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Proprietary suspended ceilings</u></p> <p>Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations</p> <p>Electrical light fittings, diffusers, panels etc are generally "lay-in" units of the same dimensions as the suspension grid described and allowance must be made in the rates accordingly for their support inclusive of any flexibility in setting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)</p> <p><u>Flush plastered gypsum plasterboard suspended ceilings</u></p> <p>Ceilings shall comprise 9,5mm (12,5mm?) gypsum plasterboard boards screwed to and including screw-up suspension grid consisting of main tees at 1 200mm centres and galvanised steel capped cross tees at 400mm centres and with tape fixed over joints and the whole finished with gypsum plaster trowelled to a smooth polished surface</p> <p>The grid shall be suspended by means of galvanised steel L-section hangers at suitable centres, securely shot-pinned or screwed to concrete, steel or wood</p> <p><u>Flush plastered gypsum plasterboard suspended bulkheads</u></p> <p>Bulkheads shall comprise galvanised steel studding of 63,5mm top and bottom tracks with vertical studs at maximum 400mm centres, pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with plasterboard screwed to studding with drywall screws at maximum 300mm centres. Boards shall be butt jointed and finished with tape and jointing compound and the whole finished with gypsum plaster trowelled to a smooth polished surface to the thickness recommended by the manufacturer</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 6        Bill No. 7        Ceilings</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>				R
	<p>Descriptions shall be deemed to include any additional studs at ends and intersections, corner beads, cornices at junctions with ceilings, jointing compound, tape, etc</p> <p><u>600mm x 1200mm acoustic OWA ceiling tiles: OWA acoustic Constellation Premium biologically absorbable mineral wool ceiling tiles, NRC - 0.70, CAC - 33dB, Fire Classification A2-s1, d0, weight - 4.5 kg/m<sup>2</sup>, size 1200 x 600 x 15mm with Square-edge and white painted finish, laid on OWAT24 suspension system, comprising galvanised main tees and cross tees with main tees suspended by means of Galvanised hangers at centres not exceeding 1200mm, and all installed to manufacturer's instructions. OWA Shadowline W-trim, plugged and screwed at centres not exceeding 200mm.</u></p>			
1	Ceilings suspended not exceeding 1m	m2	783	
	<u>Owacoustics shadowline Cornice</u>			
2	Donn Approved Standard Cornice	m	575	
<b>Carried Forward to Summary of Section No. 6</b>				
Section No. 6				
Bill No. 7				
Ceilings				
<b>Project Code: ZNB 5579/2021-H</b>				
				R

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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 7 - MAIN PHARMACY</u></b>				
	<b><u>BILL NO 8</u></b>				
	<b><u>FLOOR COVERINGS, WALL LININGS, ETC</u></b>				
	<u>Fixing</u>				
	Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc				
	<b><u>FLOOR COVERINGS</u></b>				
	<u>2mm THK Polyflor 2000 pur</u>				
1	On floors	m2	653		
	<u>Grano Applied by dry-shake method</u>				
2	On floors	m2	17		
	<b><u>SKIRTINGS</u></b>				
	<u>50x100mm POLYFLOR set in Cove Skirting with 10mm radius</u>				
3	On floors	m	575		
	<b>Carried Forward to Summary of Section No. 6</b>				R
	Section No. 6				
	Bill No. 8				
	Floor coverings, wall linings				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No	<b><u>SECTION 7 - MAIN PHARMACY</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 9</u></b>				
	<b><u>IRONMONGERY</u></b>				
	<u>Proprietary items</u>				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	<b><u>LOCKS</u></b>				
	<u>Keys</u>				
	Unless otherwise described locks shall have two keys each				
	<b><u>In accordance with Door Schedule</u></b>				
1	Cylinder lock	No	22		
2	Dead lock to 1 side with thumb turn cylinder	No	13		
	<b><u>HANDLES</u></b>				
	<b><u>In accordance with Door Schedule</u></b>				
3	2 pairs of pull handles	No	5		
	<b>Carried Forward</b>				
	Section No. 6				
	Bill No. 9				
	Ironmongery				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

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	Brought Forward			R
4	Approved lever handles	No	17	
5	Push plates	No	1	
<b><u>CLADDING</u></b>				
<b><u>In accordance with Door Schedule</u></b>				
<u>900mm high Grade 304 stainless steel cladding</u>				
6	On PD-3: 900 x 2500 40mm solid core timber single door	No	10	
<b><u>DOOR CLOSERS</u></b>				
<b><u>In accordance with Door Schedule</u></b>				
7	Double action transom closer with shoe strap	No	13	
8	90 degrees hold open door closer on inside	No	13	
<b><u>SUNDRIES</u></b>				
<b><u>In accordance with Door Schedule</u></b>				
9	Wall mounted stop	No	9	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6				
Bill No. 9				
Ironmongery				
<b>Project Code: ZNB 5579/2021-H</b>				



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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Aluminium doors &amp; windows</u></p> <p>Doors and windows shall comply with AAAMSA design criteria</p> <p>Glazing shall comply with SAGGA regulations. Glass shall be type ? laminated performance glass as shown on the window schedules/drawings appended to these bills of quantities (as described in the headings to window descriptions?). Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed</p> <p>For purpose made windows and doors, refer to drawings annexed to (issued separately with?) these bills of quantities</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <p>1 A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</p> <p>2 A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 6        Bill No. 10        Metalwork</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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		<b>Brought Forward</b>			R
	3	A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process			
	4	A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked			
	5	A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years			
<b><u>DOORS, WINDOWS &amp; SHOPFRONTS</u></b>					
<b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>					
		<u>1,6mm Grade 304 steel frames</u>			
1		Frame for door 900 x 2500mm high	No	10	
<b><u>STEEL ROLLER SHUTTERS</u></b>					
		<u>PD-5: 2500 x 2100mm Roller Shutter Door fixed to 50x50x2,5mm steel frame with 16mm diameter steel bars at 80 centres.</u>			
2		Electrically operated slatted roller shutter for 2500 x 2100mm high opening, including electrical connection and commissioning	No	2	
<b><u>Dispensary Serving Hatches</u></b>					
3		PD-6 50 x 50 x 2,5mm steel frame with 16mm steel bars at 80 centres to fit 1000mm wide x 1200mm opening with epoxy coated roller shutter door over (from inside)	No	1	
<b><u>ALUMINIUM WINDOWS</u></b>					
		<b>Carried Forward</b>			R
		Section No. 6 Bill No. 10 Metalwork			
		<b>Project Code: ZNB 5579/2021-H</b>			

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	<b>Brought Forward</b>			<b>R</b>
	<u>Note</u>			
	Refer to attached window schedules for details of windows			
	<u>CREALCO SWIFT 38 extruded aluminium sections to sizes as shown to comply with 'AAAMSA' specifications. All window shopfronts sections to be designed and supplied by manufacturer to sustain wind loads as per SANS 727 or SANS 1553-2 to meet requirements of SANS 10400 Part N and will remain the responsibility of manufacturer to provide the client with the documents as requested. All structural sections, compensation channels &amp; accessories per manufacturer's design. Colour: Powdercoated - Colour TBC</u>			
4	CW19: 6245 x 2172mm high purpose made window	m2	14	
5	CW20: 3216 x 1910mm high purpose made window	m2	6	
6	CW21: 4809 x 1910mm high purpose made window	m2	9	
7	CW22: 3461 x 1910mm high purpose made window	m2	7	
8	CW23: 464 x 1910mm high purpose made window	m2	1	
9	CW24: 2808 x 1910mm high purpose made window	m2	5	
10	CW25: 2432 x 1910mm high purpose made window	m2	5	
	<b><u>ALUMINIUM DOORS</u></b>			
	<u>Anodised glazed shopfront doors as per Door Schedule, complete with subframes, ironmongery, glass, sealing and fixing to brickwork or concrete</u>			
11	PD-1: 1800 x 2500mm high purpose made double door	No	5	
12	PD-2: 900 x 2100mm high purpose made double door	No	8	
	<b>Carried Forward to Summary of Section No. 6</b>			<b>R</b>
	Section No. 6 Bill No. 10 Metalwork			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 7 - MAIN PHARMACY</u></b></p> <p><b><u>BILL NO 11</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>GRANOLITHIC</u></b></p> <p><u>Method</u></p> <p>The method to be used shall be either the monolithic method or the bonded method</p> <p><u>Preparation</u></p> <p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic</p> <p><u>Mix</u></p> <p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 6            Bill No. 11            Plastering</p>				R
	<p><b>Project Code: ZNB 5579/2021-H</b></p>				

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Panels</u></p> <p>Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for monolithic finishes, not exceeding 9,5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1,5 times its width</p> <p>Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints</p> <p><u>Laying</u></p> <p>Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels</p> <p>Bonded granolithic shall be applied to the slab after applying a 1:1 sand-and-cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels</p> <p>After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated</p> <p><u>Curing, seasoning and protection</u></p> <p>Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying</p>			R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 6        Bill No. 11        Plastering</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 7 - MAIN PHARMACY</u></b>				
	<b><u>BILL NO 12</u></b>				
	<b><u>TILING</u></b>				
	<u>Patterns</u>				
	Unless otherwise described, tiles shall be laid with continuous joints in both directions				
	<u>Fixing</u>				
	Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors shall be deemed to include 1:3 plaster bedding				
	Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat				
	Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles				
	<b><u>TILING</u></b>				
	<u>300mmx300mm x 7mm Unglazed Non-Slip Porcelain Tiles</u>				
1	On walls	m2	138		
	<u>300 x 300 x 7mm Thick Unglazed Non-slip porcelain tiles with adhesive to screeds including grouting height.</u>				
2	On floors	m2	60		
	<b>Carried Forward to Summary of Section No. 6</b>				
	Section No. 6				
	Bill No. 12				
	Tiling				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 7 - MAIN PHARMACY</u></b></p> <p><b><u>BILL NO 13</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, and to steel pipes (adaptors for connections to copper pipes are given separately)</p> <p>Descriptions of WC pans, slop hopper shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p> <p><u>As-built drawings</u></p> <p>Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)</p> <p><b><u>SANITARY FITTINGS</u></b></p>				
	<p style="text-align: right;"><b>Carried Forward</b></p> <p style="text-align: right;">Section No. 6            Bill No. 13            Plumbing and drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>				<b>R</b>
<u>Stainless steel</u>				
1	Sunridge Paper Towel Dispenser. manufactured from grade 304 stainless steel satin finish. The towel dispenser is ideal for high traffic restrooms. Unit to be mounted against the wall and supplied with installation kit. Dimensions 38cm X 29 x 12cm. Quoted without paper towels. takes maximum of 600 paper towels. Sunridge s/s or similar approved folded paper towel dispenser. Paper towel dispenser to have no sensors. Dimensions: 38 x 29 x 12cm. to be fixed against the wall.	No	5	
2	Sunridge Soap Dispenser. Product Code: SR-SOAP-DIS manufactured from Grade 304 stainless steel satin finish. The soap dispenser incorporates a replaceable and refillable sachet into the container to replace when soap liquid is finished. Unit can be mounted to the wall and the cylinder have a lock with a key and supplied with mounting kit for installation. · All as per Sunridge sanitary ware or similar approved	No	5	
3	Sunridge Waste Bin folded paper towel dispenser manufactured from grade 304 stainless steel satin finish. The towel dispenser is ideal for high traffic restrooms. Unit to be mounted against the wall and supplied with installation kit. Dimensions 38cm X 29 x 12cm. Quoted without paper towels. takes maximum of 600 paper towels.	No	6	
4	Sunridge Toilet Roll Holder Manufactured from grade 304 stainless steel satin finish surface. The unit takes only 3 toilet rolls to fill. It has a key and lock on top of the unit to lock and replace paper. Easy to mount to the wall and supplied with installation kit included . Dimensions : 14cm x 13cm x 41cm Qouted in satin finish stainless steel.	No	3	
5	Franke Stratos STRX 618, 1.2/1.5mm thick Grade 304 x 100 x 134mm deep with replaceable and refillable 1 x litre container, cylinder lock with standard Franke key, plugged and screwed to the wall with stainless steel screws.	No	4	
<b>Carried Forward</b>				<b>R</b>
Section No. 6 Bill No. 13 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
6	Frank Stratos STRX 611 or similar approved 1,2/ 1,5mm thick grade 304 18/10 satin stainless steel sanitary towel disposal bins (code: 359740), size 304 x 205 x 134mm deep with capacity of 6 litres, plugged and screwed to the wall with stainless steel screws.	No	4	
7	Franke Stratos STRX 672E, 1,2/1,5mm thick grade 304 18/10 satin stainless steel recessed toilet roll holders, size 304 x 156 x 140,7 mm deep for 2 rolls maximum 108mm diameter with spindle system and cylinder lock with standard Franke key, plugged and screwed to wall with stainless steel screws.	No	3	
<u>Stainless Steel Sluice Equipment according to Sanitary Schedule</u>				
8	Sunridge Wash up Sink. Product Code: SR-WHB-001B Inclusive of : · BV40B Sink Waste Brevik Brass Cp 40mm. · BVBTR-NUT Brevik Trap Adaptor 32x40mm. · BVBTR Brevik Bottle Trap Round. · BMM60 Borrás Medico Sink Mixer Deck Type Spout. · BMM60W Borrás Medico Wall Type Legs. · DZRBSAV4 Angle Valve Bretten 15x15 Qtr Rnd Handle DZR · All as per Sunridge sanitary ware	No	2	
<u>Ceramic Sunridge according to Sanitary Schedule</u>				
9	Geberit Abalona wall hung 530 x 355 x 340mm toilet with concealed cistern	No	3	
<b><u>TAPS &amp; VALVES</u></b>				
<u>Taps according to Sanitary Schedule</u>				
10	Cobra bib tap elbow action	No	6	
<u>Valves according to Sanitary Schedule</u>				
11	Walcro 25mm diameter BSP concealed vandal resistant DZR brass toilet flush valve with VR push button and concealed flush pipes	No	3	
<b>Carried Forward</b>				R
Section No. 6 Bill No. 13 Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
	<b><u>SOIL DRAINAGE</u></b>			
12	Provision for Soil Drainage		Item	90 000.00
	<b><u>AS-BUILT DRAWINGS</u></b>			
13	Provision of as-built drawings		Item	
<b>Carried Forward to Summary of Section No. 6</b>				R
Section No. 6				
Bill No. 13				
Plumbing and drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No	Unit	Quantity	Rate	Amount
<b><u>SECTION 7 - MAIN PHARMACY</u></b>				
<b><u>BILL NO 14</u></b>				
<b><u>PAINTWORK</u></b>				
<b><u>SUPPLEMENTARY PREAMBLES</u></b>				
<b><u>PREPARATORY WORK TO EXISTING WORK</u></b>				
<u>Previously painted plastered surfaces</u>				
Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth				
<u>Previously painted metal surfaces</u>				
Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal				
<u>Previously painted wood surfaces</u>				
Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth				
<b><u>PAINT SPECIFICATIONS</u></b>				
All painting shall be done in accordance with the architect's specifications unless otherwise described				
<b><u>PAINTWORK TO NEW WORK</u></b>				
<b><u>ON INTERNAL FLOATED PLASTER SURFACES</u></b>				
<b>Carried Forward</b> Section No. 6 Bill No. 14 Paintwork				R
Project Code: ZNB 5579/2021-H				

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		Brought Forward			R
	<u>One undercoat and two final coats PVA (Anti-Bacterial Painted finish)</u>				
1	Walls	m2	434		
	<b><u>ON METAL SURFACES</u></b>				
	<u>One coat alkyd based zinc phosphate primer and two coats premium quality polyurethane enamel paint, on steel</u>				
2	Door frames	m2	13		
	<b><u>ON WOOD SURFACES</u></b>				
	<u>One coat primer and two coats premium quality polyurethane enamel paint</u>				
3	Doors	m2	10		
	<b><u>PAINTWORK TO PREVIOUSLY PAINTED WORK</u></b>				
	<b><u>BUDGETARY ALLOWANCE</u></b>				
4	Allow the Budgetary Allowance for painting previously painted work			Item	
<b>Carried Forward to Summary of Section No. 6</b>					R
Section No. 6					
Bill No. 14					
Paintwork					
<b>Project Code: ZNB 5579/2021-H</b>					

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**SECTION SUMMARY - SECTION 7 - MAIN PHARMACY**

Bill No		Page No	Amount
1	Alterations	332	
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3	Concrete, Formwork and Reinforcement	338	
4	Masonry	341	
5	Waterproofing	343	
6	Carpentry and joinery	344	
7	Ceilings	347	
8	Floor coverings, wall linings	348	
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10	Metalwork	354	
11	Plastering	357	
12	Tiling	358	
13	Plumbing and drainage	362	
14	Paintwork	364	
<b>Carried to Final Summary</b>			
Section No. 6			R
<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>DEMOLITIONS</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent</p> <p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site</p> <p><u>Saw cutting</u></p>			
1	Saw cutting existing concrete 150mm deep	m	25	
	<p><b>Carried Forward</b></p> <p>Section No. 7            Bill No. 1            Demolitions</p>			R
	<p><b>Project Code: ZNB 5579/2021-H</b></p>			

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		Brought Forward		R
	<u>Breaking up, removing and disposing at a licensed dump site to be located by the contractor</u>			
2	Concrete surface beds and paving	m2	35	
<b>Carried Forward to Summary of Section No. 7</b>				R
	Section No. 7			
	Bill No. 1			
	Demolitions			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No	Unit	Quantity	Rate	Amount
<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p><u>Subterranean water</u></p> <p>The water table is detailed in the Geotechnical Report which is annexed to these bills of quantities.</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2", and "C1", "C2" in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p style="text-align: right;"><b>Carried Forward</b>            Section No. 7            Bill No. 2            Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>				R



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		Brought Forward			R
	<u>De-watering of seepage water and water from other subterranean sources in excavations</u>				
9	Allow for pumping			Item	
	<b><u>FILLING</u></b>				
	<u>Earth filling with G5 material in 150mm layers, including haulage, compacted to 97% Mod AASHTO density</u>				
10	Under floors to make up levels	m3	5		
11	Backfilling to trenches and holes	m3	2		
	<u>Compaction of ground surfaces</u>				
12	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density	m2	35		
	<b><u>WEED KILLERS &amp; INSECTICIDES</u></b>				
	<u>Weedkiller</u>				
13	Under floors	m2	35		
	<u>Soil insecticide in accordance with SANS 5859</u>				
14	Under floors, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming	m2	35		
15	To bottoms and sides of trenches	m2	17		
	<b><u>TESTS</u></b>				
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>				
16	"Modified AASHTO Density" test	No	4		
	<b>Carried Forward to Summary of Section No. 7</b>				R
	Section No. 7				
	Bill No. 2				
	Earthworks (Provisional)				
	<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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> <p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 7</p> <p>Bill No. 3</p> <p>Concrete, Formwork and Reinforcement</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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<b>Brought Forward</b>				R
Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described				
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"				
<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<u>Class 15/19 10MPa concrete</u>				
1	Surface blinding under footings and bases	m3	0.3	
<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>				
<u>Class 30/19 25MPa</u>				
2	Edge thickening	m3	0.2	
3	Bases	m3	1	
4	Surface beds	m3	4	
<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>				
<u>Class 30/19 30MPa</u>				
5	Plinth in foundations (Provisional)	m3	0.2	
6	Upstand beams	m3	0.4	
<b>Carried Forward</b>				R
Section No. 7 Bill No. 3 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward			R
		<b><u>TEST CUBES</u></b>			
7	Making and testing one set of 3 cubes size:150 x 150 x 150mm for every 5m <sup>3</sup> pour	No	6		
		<b><u>CONCRETE SUNDRIES</u></b>			
		<u>Finishing top surfaces of concrete smooth with a power float</u>			
8	Surface beds	m <sup>2</sup>	28		
		<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
		<u>Smooth formwork to sides</u>			
9	250 x 250mm Rectangular plinth in foundations (Provisional)	m <sup>2</sup>	2		
		<b><u>MOVEMENT JOINTS</u></b>			
		<u>Saw-cut joints. Cut as soon as concrete has hardened sufficiently to prevent dislodgment of aggregate particles (8 to 24 hours after casting)</u>			
10	3 x 30mm Saw-cut joints in top of concrete	m	4		
		<u>Isolation joints between horizontal concrete and vertical surfaces</u>			
11	Between surface bed slab and vertical surfaces	m	19		
		<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
		<u>Mild steel reinforcement to structural concrete work</u>			
12	Varying diameter bars	t	0.01		
		<u>Fabric reinforcement</u>			
13	Type 617 fabric reinforcement fixed 30mm from top and bottom of concrete surface beds	m <sup>2</sup>	55		
		<b>Carried Forward</b>			R
		Section No. 7			
		Bill No. 3			
		Concrete, Formwork and Reinforcement			
		<b>Project Code: ZNB 5579/2021-H</b>			



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Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>				
	<b><u>BILL NO 4</u></b>				
	<b><u>WATERPROOFING</u></b>				
	<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				
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
1	Under surface beds	m2	29		
	<u>Primer and two coats of heavy duty bitumen emulsion waterproof coating</u>				
2	On concrete plinths in foundations (Provisional)	m2	2		
	<b><u>SEALING &amp; JOINT SEALANTS</u></b>				
	<u>Approved joint sealant including backing cord, bond breaker strip</u>				
3	10 x 10mm In saw cut joints in floors	m	4		
	<u>10mm Jointex</u>				
4	In isolation joints	m	19		
	<b>Carried Forward to Summary of Section No. 7</b>				R
	Section No. 7				
	Bill No. 4				
	Waterproofing				
	<b>Project Code: ZNB 5579/2021-H</b>				

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>				
	<b><u>BILL NO 5</u></b>				
	<b><u>ROOF COVERINGS</u></b>				
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<u>0.5mm Chromadek IBR roof sheeting on lipped channel structure</u>				
1	Roof covering with pitches not exceeding 25 degrees	m2	42		
	<b><u>SHEET METAL FLASHINGS, LININGS, COPINGS,</u></b>				
	<u>100x190x50x0.8mm Chromadek flashing</u>				
2	Flashing at front and sides	m	27		
	<b>Carried Forward to Summary of Section No. 7</b>				
	Section No. 7				
	Bill No. 5				
	Roof Coverings				
	<b>Project Code: ZNB 5579/2021-H</b>				
				R	

LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No	Unit	Quantity	Rate	Amount
<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>				
<b><u>BILL NO 6</u></b>				
<b><u>STRUCTURAL STEELWORK</u></b>				
<u>Descriptions</u>				
Descriptions of bolts shall be deemed to include nuts and washers				
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
<b><u>STEEL COLUMNS</u></b>				
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete with 4x M12 chemical anchors, min embedment.</u>				
1	t	0.22		
<b><u>STEEL TRUSSES</u></b>				
<u>Welded roof trusses of rafters and connection plates, bolted to steel</u>				
2	t	0.18		
<b><u>STEEL PURLINS AND BRACING</u></b>				
<u>Purlins bolted to steel</u>				
3	t	0.07		
			R	
<b>Carried Forward</b>				
Section No. 7				
Bill No. 6				
Structural Steelwork				
<b>Project Code: ZNB 5579/2021-H</b>				

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward			R
4	125 x 50 x 20 x 3mm Thick cold-formed lipped channel purlins		t	0.10	
5	150 x 50 x 20 x 2mm Thick cold-formed lipped channel purlins		t	0.12	
<u>Welded bracing and anti-sag rails with flat connection plates, bolted to steel</u>					
6	50 x 50 x 4L Angle anti-sag rails		t	0.02	
7	70 x 70 x 6L Angle bracing		t	0.15	
<b><u>BASE PLATES &amp; BOLTS</u></b>					
<u>Base plates, plates</u>					
8	200 x 200 x 8mm Plates		No	6	
<u>Galvanised bolts</u>					
9	M12 chemical anchors. Min embedment 110mm to be installed in accordance to manufacturers specifications		No	24	
<b>Carried Forward to Summary of Section No. 7</b>					R
Section No. 7					
Bill No. 6					
Structural Steelwork					
<b>Project Code: ZNB 5579/2021-H</b>					

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO 7</u></b></p> <p><b><u>PLUMBING AND DRAINAGE</u></b></p> <p><u>Laying, backfilling bedding,of pipes</u></p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001</p> <p><u>General</u></p> <p>Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)</p> <p>Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends</p> <p>Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site</p> <p>Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)</p> <p>Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 7</p> <p>Bill No. 7</p> <p>Plumbing and Drainage</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	



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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

	<b>Brought Forward</b>		<b>R</b>
	<p><u>Manhole with 250mm thick base with Mesh Ref 888 placed at the bottom.</u>  <u>230mm NFX hard burnt clay brickwork plastered to a smooth finish internally and painted with two coats bituminous paint or 2 coats brixial (to be applied strictly in accordance to manufacturer's specifications. Grade Stainless Steel basket eith a handle and 6,, holes drilled at 25mm centres in bottom plate and sides supported on a 25 x 25 x 3mm stainless steel angle iron frame built into brickwork.</u></p> <p><u>Including heavy duty manhole covers.</u></p>		
6	Manhole	Item	
	<b><u>SUNDRIES</u></b>		
	<u>Testing</u>		
7	Testing drainage system	Item	
	<b><u>AS-BUILT DRAWINGS</u></b>		
8	Provision of as-built drawings	Item	
	<b>Carried Forward to Summary of Section No. 7</b>		<b>R</b>
	Section No. 7		
	Bill No. 7		
	Plumbing and Drainage		
	<b>Project Code: ZNB 5579/2021-H</b>		

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No	Quantity	Rate	Amount
<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>			
<b><u>BILL NO 8</u></b>			
<b><u>PAINTWORK</u></b>			
<u>General</u>			
<b><u>The contractor is required to obtain approval from the design team or client before substituting products or materials specified in the design. The contractor shall demonstrate that the alternative product has equivalent or superior environmental qualities.</u></b>			
<b><u>STRUCTURAL STEEL</u></b>			
<u>One coat shop primer touched-up on site, one universal undercoat and two coats enamel paint to all structural steelwork according to Engineer's specification (Colour to Architects Specifications)</u>			
1	On columns, beams and rafters	t	0.86
<b>Carried Forward to Summary of Section No. 7</b>			R
Section No. 7 Bill No. 8 Paintwork			
<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Quantity	Rate	Amount
	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>DEMOLITIONS</u></b></p> <p><u>View site</u></p> <p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p> <p><u>Explosives</u></p> <p>No explosives whatsoever may be used for demolition purposes unless otherwise stated</p> <p><u>General</u></p> <p>Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent</p> <p>Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site</p> <p><u>Saw cutting</u></p>			
1	Saw cutting existing concrete 150mm deep	m		
	<p align="right"><b>Carried Forward</b></p> <p align="right">Section No. 7            Bill No. 9            Demolitions</p>			R
	<p><b>Project Code: ZNB 5579/2021-H</b></p>			



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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO 2</u></b></p> <p><b><u>EARTHWORKS (PROVISIONAL)</u></b></p> <p><u>Nature of ground</u></p> <p>A soils investigation has been carried out on the site by the engineer and the report is annexed to these bills of quantities. The soils report indicates that the ground varies between silty sand, reworked soil of mixed origin and residual shale, all of which will be deemed as "earth". All very hard unweathered shale, ironstone, the removal of which necessitates the use of explosives or heavy duty hydraulic percussion hammers (peckers), will be classified as "hard rock"</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Filling and layer work materials</u></p> <p>References such as "G1", "G2",and "C1", "C2" in descriptions of filling and layer work materials refer to corresponding references in the document "Guidelines for Road Construction Materials. TRH 14 : 1985" compiled by the Committee of State Road Authorities and the properties set out therein for each kind shall be applicable to the respective materials described hereinafter</p> <p><u>Testing</u></p> <p><i>Prices for filling are to include for all necessary density and other tests</i></p>				
	<p><b>Carried Forward</b></p> <p>Section No. 7</p> <p>Bill No. 10</p> <p>Earthworks (Provisional)</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>				<b>R</b>
<b><u>EXCAVATION &amp; FILLING OTHER THAN BULK</u></b>				
<b><u>EXCAVATIONS</u></b>				
<u>Excavation in earth not exceeding 2m deep</u> <u>Where required, excavation depth to be increased until</u> <u>adequate founding material is encountered.</u>				
1	Reduced levels under floors	m3		
2	Trenches	m3		
3	Holes	m3		
<u>Extra over trench and hole excavations in earth for</u> <u>excavation in</u>				
4	Soft rock	m3		
5	Hard rock	m3		
<u>Extra over all excavations for carting away</u>				
6	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3		
<u>Risk of collapse of excavations</u>				
7	Sides of trench and hole excavations not exceeding 1,5m deep	m2		
<u>Keeping excavations free of water</u>				
8	Keeping excavations free of all water other than subterranean water		Item	
<u>De-watering of seepage water and water from other</u> <u>subterranean sources in excavations</u>				
9	Allow for pumping		Item	
<b><u>FILLING</u></b>				
<b>Carried Forward</b>				
Section No. 7				
Bill No. 10				
Earthworks (Provisional)				
<b>Project Code: ZNB 5579/2021-H</b>				
				<b>R</b>

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward		R
	<u>Earth filling with G5 material in 150mm layers, including haulage, compacted to 97% Mod AASHTO density</u>			
10	Under floors to make up levels		m3	
11	Backfilling to trenches and holes		m3	
	<u>Compaction of ground surfaces</u>			
12	Compaction of natural or excavated ground surface under floors, including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod AASHTO density		m2	
	<b><u>WEED KILLERS &amp; INSECTICIDES</u></b>			
	<u>Weedkiller</u>			
13	Under floors		m2	
	<u>Soil insecticide in accordance with SANS 5859</u>			
14	Under floors, including forming and poisoning shallow furrows against foundation walls, filling in furrows and ramming		m2	
15	To bottoms and sides of trenches		m2	
	<b><u>TESTS</u></b>			
	<u>Prescribed tests to determine degree of compaction or other properties of ground or filling</u>			
16	"Modified AASHTO Density" test		No	
	<b>Carried Forward to Summary of Section No. 7</b>			R
	Section No. 7			
	Bill No. 10			
	Earthworks (Provisional)			
	<b>Project Code: ZNB 5579/2021-H</b>			

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></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 for approval. The testing shall be undertaken by an approved independent firm or institution nominated by the contractor (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> <p>Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described</p>				
	<p><b>Carried Forward</b></p> <p>Section No. 7</p> <p>Bill No. 11</p> <p>Concrete, Formwork and Reinforcement</p> <p><b>Project Code: ZNB 5579/2021-H</b></p>			R	

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			R
	Formwork to soffits of slabs, beams, etc shall be deemed to be propped up exceeding 1,5m and not exceeding 3,5m high unless otherwise described		
	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"		
	<b><u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<u>Class 15/19 10MPa concrete</u>		
1	Surface blinding under footings and bases	m3	
	<b><u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u></b>		
	<u>Class 30/19 25MPa</u>		
2	Edge thickening	m3	
3	Bases	m3	
4	Surface beds	m3	
	<b><u>REINFORCED CONCRETE CAST ON/IN FORMWORK</u></b>		
	<u>Class 30/19 30MPa</u>		
5	Plinth in foundations (Provisional)	m3	
6	Upstand beams	m3	
	<b>Carried Forward</b>		R
	Section No. 7 Bill No. 11 Concrete, Formwork and Reinforcement <b>Project Code: ZNB 5579/2021-H</b>		

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward		R
	<b><u>TEST CUBES</u></b>			
7	Making and testing one set of 3 cubes size:150 x 150 x 150mm for every 5m <sup>3</sup> pour		No	
	<b><u>CONCRETE SUNDRIES</u></b>			
	<u>Finishing top surfaces of concrete smooth with a power float</u>			
8	Surface beds		m <sup>2</sup>	
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
	<u>Smooth formwork to sides</u>			
9	250 x 250mm Rectangular plinth in foundations (Provisional)		m <sup>2</sup>	
	<b><u>MOVEMENT JOINTS</u></b>			
	<u>Saw-cut joints. Cut as soon as concrete has hardened sufficiently to prevent dislodgment of aggregate particles (8 to 24 hours after casting)</u>			
10	3 x 30mm Saw-cut joints in top of concrete		m	
	<u>Isolation joints between horizontal concrete and vertical surfaces</u>			
11	Between surface bed slab and vertical surfaces		m	
	<b><u>REINFORCEMENT (PROVISIONAL)</u></b>			
	<u>Mild steel reinforcement to structural concrete work</u>			
12	Varying diameter bars		t	
	<u>Fabric reinforcement</u>			
13	Type 617 fabric reinforcement fixed 30mm from top and bottom of concrete surface beds		m <sup>2</sup>	
		<b>Carried Forward</b>		R
		Section No. 7		
		Bill No. 11		
		Concrete, Formwork and Reinforcement		
		<b>Project Code: ZNB 5579/2021-H</b>		



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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Unit	Quantity	Rate	Amount
	<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>				
	<b><u>BILL NO 4</u></b>				
	<b><u>WATERPROOFING</u></b>				
	<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				
	<b><u>DAMPPROOFING OF WALLS AND FLOORS</u></b>				
	<u>One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>				
1	Under surface beds	m2			
	<u>Primer and two coats of heavy duty bitumen emulsion waterproof coating</u>				
2	On concrete plinths in foundations (Provisional)	m2			
	<b><u>SEALING &amp; JOINT SEALANTS</u></b>				
	<u>Approved joint sealant including backing cord, bond breaker strip</u>				
3	10 x 10mm In saw cut joints in floors	m			
	<u>10mm Jointex</u>				
4	In isolation joints	m			
	<b>Carried Forward to Summary of Section No. 7</b>				R
	Section No. 7				
	Bill No. 12				
	Waterproofing				
	<b>Project Code: ZNB 5579/2021-H</b>				

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No	<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>	Unit	Quantity	Rate	Amount
	<b><u>BILL NO 5</u></b>				
	<b><u>ROOF COVERINGS</u></b>				
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>				
	<u>0.5mm Chromadek IBR roof sheeting on lipped channel structure</u>				
1	Roof covering with pitches not exceeding 25 degrees	m2			
	<b><u>SHEET METAL FLASHINGS, LININGS, COPINGS,</u></b>				
	<u>100x190x50x0.8mm Chromadek flashing</u>				
2	Flashing at front and sides	m			
	<b>Carried Forward to Summary of Section No. 7</b>				
	Section No. 7				
	Bill No. 13				
	Roof Coverings				
	Project Code: ZNB 5579/2021-H				
				R	

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No	Unit	Quantity	Rate	Amount
<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>				
<b><u>BILL NO 6</u></b>				
<b><u>STRUCTURAL STEELWORK</u></b>				
<u>Descriptions</u>				
Descriptions of bolts shall be deemed to include nuts and washers				
Descriptions of L-shaped and U-shaped anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete				
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete				
<b><u>STEEL COLUMNS</u></b>				
<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete with 4x M12 chemical anchors, min embedment.</u>				
1		75 x 75 x 4mm SHS columns	t	
<b><u>STEEL TRUSSES</u></b>				
<u>Welded roof trusses of rafters and connection plates, bolted to steel</u>				
2		175 x 75 x 20 x 4.5 Rafters	t	
<b><u>STEEL PURLINS AND BRACING</u></b>				
<u>Purlins bolted to steel</u>				
3		100 x 50 x 20 x 2.5mm Thick cold-formed lipped channel purlins	t	
<b>Carried Forward</b>				
Section No. 7				
Bill No. 14				
Structural Steelwork				
<b>Project Code: ZNB 5579/2021-H</b>				
			R	

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

	<b>Brought Forward</b>			<b>R</b>
4	125 x 50 x 20 x 3mm Thick cold-formed lipped channel purlins	t		
5	150 x 50 x 20 x 2mm Thick cold-formed lipped channel purlins	t		
	<u>Welded bracing and anti-sag rails with flat connection plates, bolted to steel</u>			
6	50 x 50 x 4L Angle anti-sag rails	t		
7	70 x 70 x 6L Angle bracing	t		
	<b><u>BASE PLATES &amp; BOLTS</u></b>			
	<u>Base plates, plates</u>			
8	200 x 200 x 8mm Plates	No		
	<u>Galvanised bolts</u>			
9	M12 chemical anchors. Min embedment 110mm to be installed in accordance to manufacturers specifications	No		
<b>Carried Forward to Summary of Section No. 7</b>				<b>R</b>
Section No. 7				
Bill No. 14				
Structural Steelwork				
<b>Project Code: ZNB 5579/2021-H</b>				

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No	Unit	Quantity	Rate	Amount
<b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b>				
<b><u>BILL NO 7</u></b>				
<b><u>PLUMBING AND DRAINAGE</u></b>				
<u>Laying, backfilling bedding,of pipes</u>				
Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled				
Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001				
<u>General</u>				
Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc are given separately)				
Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends				
Descriptions of pipes laid in and including trenches and of inspection chambers, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site				
Descriptions of service pipes and flexible connecting pipes shall be deemed to include connections to taps, cisterns, etc and to steel pipes (adaptors for connections to copper pipes, etc are given separately)				
Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)				
<b>Carried Forward</b>			R	
Section No. 7				
Bill No. 15				
Plumbing and Drainage				
<b>Project Code: ZNB 5579/2021-H</b>				

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>		R
<u>As-built drawings</u>		
Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)		
<b><u>RAINWATER DISPOSAL</u></b>		
<u>100x75mmx0.6mm Fluted aluminum down pipes with baked enamel finish, sized in accordance with the requirements of 4.3, of Part R SANS 10400</u>		
1	100mm Diameter rainwater pipes	m
2	Extra over for roof outlet including M8 Bolt	No
3	Extra over for pipe connector to gutter outlet	No
4	Extra over single socket bends	No
5	Extra over downpipe for shoe	No
<b><u>MANHOLES</u></b>		
<u>Refer to Wash Bay Layout and details,          Structural Drawing Number: i0223-STR-011/1-Rev A.          Section C-C</u>		
<b>Carried Forward</b>		R
Section No. 7 Bill No. 15 Plumbing and Drainage		
<b>Project Code: ZNB 5579/2021-H</b>		

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	<b>Brought Forward</b>		<b>R</b>
	<p><u>Manhole with 250mm thick base with Mesh Ref 888 placed at the bottom.</u>  <u>230mm NFX hard burnt clay brickwork plastered to a smooth finish internally and painted with two coats bituminous paint or 2 coats brixial (to be applied strictly in accordance to manufacturer's specifications. Grade Stainless Steel basket eith a handle and 6,, holes drilled at 25mm centres in bottom plate and sides supported on a 25 x 25 x 3mm stainless steel angle iron frame built into brickwork.</u></p> <p><u>Including heavy duty manhole covers.</u></p>		
6	Manhole	Item	
	<b><u>SUNDRIES</u></b>		
	<u>Testing</u>		
7	Testing drainage system	Item	
	<b><u>AS-BUILT DRAWINGS</u></b>		
8	Provision of as-built drawings	Item	
	<b>Carried Forward to Summary of Section No. 7</b>		<b>R</b>
	Section No. 7		
	Bill No. 15		
	Plumbing and Drainage		
	<b>Project Code: ZNB 5579/2021-H</b>		

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Item No		Quantity	Rate	Amount
1	<p><b><u>SECTION 8 - AMBULANCE WASH BAY AREA</u></b></p> <p><b><u>BILL NO 8</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><u>General</u></p> <p><b><u>The contractor is required to obtain approval from the design team or client before substituting products or materials specified in the design. The contractor shall demonstrate that the alternative product has equivalent or superior environmental qualities.</u></b></p> <p><b><u>STRUCTURAL STEEL</u></b></p> <p><u>One coat shop primer touched-up on site, one universal undercoat and two coats enamel paint to all structural steelwork according to Engineer's specification (Colour to Architects Specifications)</u></p> <p>On columns, beams and rafters</p>	t		
	<p><b>Carried Forward to Summary of Section No. 7</b></p>		R	
	<p>Section No. 7            Bill No. 16            Paintwork</p>			
	<p>Project Code: ZNB 5579/2021-H</p>			

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**SECTION SUMMARY - SECTION 8 - VEHICLE WASH AREA**

<b>Bill No</b>		<b>Page No</b>	<b>Amount</b>
1	Demolitions	367	
2	Earthworks (Provisional)	370	
3	Concrete, Formwork and Reinforcement	374	
4	Waterproofing	375	
5	Roof Coverings	376	
6	Structural Steelwork	378	
7	Plumbing and Drainage	381	
8	Paintwork	382	
9	Demolitions	384	
10	Earthworks (Provisional)	387	
11	Concrete, Formwork and Reinforcement	391	
12	Waterproofing	392	
13	Roof Coverings	393	
14	Structural Steelwork	395	
15	Plumbing and Drainage	398	
16	Paintwork	399	
<b>Carried to Final Summary</b>			
Section No. 7			
<b>Project Code: ZNB 5579/2021-H</b>			
			R

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
	<u>SANS 1200LD</u>	<b><u>SEWERS</u></b>				
	8.2.1	<b><u>Supply, lay, joint, bed on class B bedding and test pipeline:</u></b>				
	8.2.1.3	<u>SABS 1601(94) uPVC heavy duty structured wall pipes with pipe stiffness of 400kPa:</u>				
1	8.2.1.3	160 mm Dia	m	307		
	8.2.3	<b><u>Brick manholes:</u></b>				
	8.2.3.1	<u>With concrete cover and frame for pipes up to 600 mm dia:</u>				
2	8.2.3.1	Depth 0 m up to 0,5 m	No	9		
3	8.2.3.1	Depth 0,5 m up to 1,0 m	No	4		
4	8.2.3.1	Depth 1,0 m up to 1,5 m	No	1		
	8.2.13	<b><u>Breaking into existing sewer and building a new manhole</u></b>				
5	8.2.13	uPVC pipes 160mm	m	20		
6	8.2.13	Bends(90 degree)	No	14		
7	8.2.13	Bends(T bend)	No	14		
8	8.2.13	Fittings	No	5		
<b>Carried Forward to Summary of Section No. 8</b>						
Section No. 8						
Bill No. 1						
SANS 1200LD - Sewers						
<b>Project Code: ZNB 5579/2021-H</b>						
						R

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Item No	SANS Pay Ref		Unit	Quantity	Rate	Amount
	<u>SANS 1200LF</u>	<b><u>WATER CONNECTIONS</u></b>				
		<b><u>WATER SUPPLIES</u></b>				
		<u>Class 16 PVC-U pressure pipes with solvent welded joints</u>				
1		50mm Pipes laid in and including trenches not exceeding 1m deep	m	350		
	<u>SANS 1200LF</u>	<b><u>Provide erf connections complete.</u></b>				
	8.2.1					
	8.2.1.1	<u>On the point of supply located within the boundary of the site</u>				
2	8.2.1.1	Single connection	No	1		
	8.2.3	<b><u>Extra over item 8.2.2 for specials.</u></b>				
3	8.2.3	50 mm dia Shut of valve	No	2		
4	8.2.3	50 mm dia Strainer	No	2		
5	8.2.3	50 mm dia non return valve	No	2		
6	8.2.3	40 mm dia Shut of valve	No	2		
7	8.2.3	40 mm dia Strainer	No	2		
8	8.2.3	40 mm dia non return valve	No	2		
9	8.2.5	Site testing of meters. (Provisional).	No	1		
10	8.2.6	Supply and install stop taps complete with special fittings.	No	3		
		<b>Carried Forward to Summary of Section No. 8</b>				
		Section No. 8				
		Bill No. 2				
		SANS 1200LF - Water Connections				
		<b>Project Code: ZNB 5579/2021-H</b>				
					R	

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**SECTION SUMMARY - SECTION 9 - PIPED SERVICES**

Bill No		Page No	Amount
1	SANS 1200LD - Sewers	401	
2	SANS 1200LF - Water Connections	402	

**Carried to Final Summary**  
 Section No. 8

**Project Code: ZNB 5579/2021-H**

R

**LADYSMITH HOSPITAL  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION 10 - MECHANICAL WORKS</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES AND GENERAL</u></b>			
	<b><u>Operating and maintenance manuals</u></b>			
1	The contractor shall make provision for 3 x copies of O & M Manuals in accordance with the details in the standard specification.	No	3	
	<b><u>Training of clients staff</u></b>			
2	The contractor shall make provision for 1 full day's training of the clients staff, on the operation of the installation.		Item	
	<b><u>As Built Drawings</u></b>			
3	The contractor shall make provision for a detailed set of as fitted layout drawings of the entire installation, as the project progresses. Refer to standard detailed specification regarding project drawings.		Item	
	<b><u>Maintenance and Guarantee</u></b>			
4	The Contractor shall make provision for 1 x Full years, Maintenance and Guarantee of the entire installation. 11 x Standard Maintenance visits and 1 x Major service is required throughout the 12 months.		Item	
	<b><u>Commissioning and Handover</u></b>			
5	Refer to Standard Technical Specification. The Project will not be handed over until fully completed. NOTE: The project will not be taken over unless the installation are fully commissional and commissioning data is included in the O & M manuals at time of carrying out handovers inspections to verify the commissioning data.		Item	
	<b>Carried Forward</b>			
	Section No. 9			
	Bill No. 1			
	Preliminaries and General			
	<b>Project Code: ZNB 5579/2021-H</b>			
			R	

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		Brought Forward		R
	<b><u>Rigging</u></b>			
6	The contractor shall make provision for the lifting and rigging of all his own plant and equipment		Item	
	<b><u>Equipment Submissions</u></b>			
7	Equipment submissions		Item	
	<b><u>Inspection and testing certificates</u></b>			
8	Inspection and testing certificates Including COC's for electrical work		Item	
	<b><u>Accommodation and Transport</u></b>			
9	Accommodation and transport per month	No	12	
	<b><u>Workshop drawings</u></b>			
10	Workshop drawings – Paper and electronic		Item	
	<b><u>Compliance with Health and Safety</u></b>			
11	Compliance with Health and Safety regulations per Month	No	12	
	<b><u>Compliance with contract conditions contract</u></b>			
12	Compliance with contract conditions contract		Item	
	<b><u>Profit and Attendance</u></b>			
13	Attendance per month	No	12	
<b>Carried Forward to Summary of Section No. 9</b>				R
Section No. 9				
Bill No. 1				
Preliminaries and General				
<b>Project Code: ZNB 5579/2021-H</b>				



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Brought Forward				R
<b><u>Multilayer Mepla piping complete with content labelling and direction of flow indicators including supporting at centres as detailed in the specifications:</u></b>				
8	20mm diameter pipes	m	500	
9	22mm diameter pipes	m	410	
10	26mm diameter pipes	m	360	
11	32mm diameter pipes	m	150	
12	40mm diameter pipes	m	50	
13	50mm diameter pipes	m	70	
14	63mm diameter pipes	m	15	
<b><u>Extra over Multilayer Mepla piping fittings:</u></b>				
<u>T-Pieces</u>				
15	20mm diameter T-piece	No	12	
16	26mm diameter T-piece	No	20	
17	26mm diameter Cross	No	4	
18	32mm diameter T-piece	No	14	
19	40mm diameter T-piece	No	14	
20	40mm diameter Cross	No	6	
21	50mm diameter T-piece	No	15	
22	50mm diameter Cross	No	4	
<u>Elbows</u>				
23	20 diameter elbow	No	120	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 2 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
24	26 diameter elbow	No	100	
25	32 diameter elbow	No	10	
26	50 diameter elbow	No	4	
27	63 diameter elbow	No	4	
<u>Reducers</u>				
28	26mm diameter to 20mm diameter reducer	No	60	
29	32mm diameter to 20mm diameter reducer	No	20	
30	32mm diameter to 26mm diameter reducer	No	30	
31	40mm diameter to 20mm diameter reducer	No	20	
32	40mm diameter to 26mm diameter reducer	No	15	
33	40mm diameter to 32mm diameter reducer	No	10	
34	50mm diameter to 20mm diameter reducer	No	10	
35	50mm diameter to 26mm diameter reducer	No	8	
36	50mm diameter to 32mm diameter reducer	No	6	
37	50mm diameter to 40mm diameter reducer	No	6	
<u>Taps &amp; Valves</u>				
38	20mm Ball valve.	No	18	
39	26mm Ball valve.	No	25	
40	32mm Ball valve.	No	5	
41	50mm Ball valve.	No	3	
42	63mm Ball valve.	No	2	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 2 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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Brought Forward				R
<b><u>Multilayer Mepla piping including Insulation as per Specification</u></b>				
43	20mm diameter pipes	m	65	
44	26mm diameter pipes	m	95	
45	32mm diameter pipes	m	75	
<b><u>Multilayer Mepla piping Extra on insulation for:</u></b>				
<u>T-Pieces</u>				
46	20mm diameter T-piece	No	10	
47	26mm diameter T-piece	No	10	
48	32mm diameter Cross	No	4	
49	32mm diameter T-piece	No	10	
<u>Elbows</u>				
50	20 diameter elbow	No	100	
51	26 diameter elbow	No	20	
52	32 diameter elbow	No	20	
<u>Reducers</u>				
53	26mm diameter to 20mm diameter reducer	No	16	
54	32mm diameter to 20mm diameter reducer	No	20	
55	32mm diameter to 26mm diameter reducer	No	10	
<u>Taps and Valves</u>				
56	20mm Ball valve.	No	25	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 2 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
		<b><u>HOT WATER GENERATION</u></b>		
57	For the complete supply, delivery and installation of a 19kW TKRS-200E/SN2-M- THERMOWISE Air to Water Heat Pump (with Smart Colour Touchscreen controller) heating reservoir water to a temperature of between 55 - 60°C, with minimum ambient temperature of -15°C, including automatic defrost cycle, all safety features, thermostats, controls, connection to Isolators, with maximum noise level of 70dB(A), fittings, insulation, cladding, bends,tees, and necessary accessories as specified. All pipework interconnection between Hot Water Storage Vessel and heat pumps to be fitted with lagging as specified , including PVC drains to nearest drainage point. Standard Casing	No	1	
58	For the complete supply, delivery and installation of a 1600 ltr TC-016_1 Sirac Thermotube Heat Accumulator, constructed from 43kg/m <sup>3</sup> polyurethane foamed between two Chromadek sheets. The unique patented panel design eliminates temperature "bridging" and gives the tank outstanding strength and insulation properties with an R-value of >2.65. The heat exchangers are fabricated from 316L stainless steel spiral corrugated tubing with 0,3mm wall thickness which provides exceptional heat transfer properties. The large bore tube provides the necessary surface area to afford exceptional efficiency with a low water pressure drop. These heat exchangers have a maximum operating pressure of 1000kPa. (Backup Heating as Optional Extra specified below)	No	1	
		<b><u>CIRCULATION PUMPS (Include Installation)</u></b>		
59	(Primary Circulation pump for Heat Pump)	No	1	
60	(Hot Water Return circulation pump)	No	1	
61	Electrical Connection and wiring of Equipment and commisioning	No	2	
		<b>Carried Forward</b>		
		Section No. 9		
		Bill No. 2		
		Paeds & OPD		
		<b>Project Code: ZNB 5579/2021-H</b>		
		R		

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Brought Forward			R
	<u>For the complete supply, delivery and installation of supply piping as specified, between HWS Vessels and Heat pumps, inclusive of all insulation, cladding, bracketing , fittings, valves, strainers, non return valves etc</u>		
62	Complete Mepla installation		SUM
	<b><u>HVAC</u></b>		
	<b><u>VENTILATION FANS</u></b>		
	<u>Supply and installation of ventilation fans complete with suction and discharge sound attenuators with hanger rods and support brackets, anti-vibration rubber supports, and all required accessories to successfully operate</u>		
63	(EF1) Extract Fan - Inline ducted - 186l/s @150Pa	No	1
	<b><u>SHEET METAL DUCTING</u></b>		
	<u>Supply and installation of Round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>		
64	150ø	m	6
	<b><u>FLEXIBLE DUCTING</u></b>		
	<u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u>		
65	150ø	m	4
	<b><u>SHEET METAL DUCTING</u></b>		
	<u>Supply and installation of Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>		
66	200x250	m	8
	<b>Carried Forward</b>		R
	Section No. 9 Bill No. 2 Paeds & OPD		
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				Brought Forward		R
67	200x200	m	20			
<b><u>ELECTRICAL CONNECTION</u></b>						
<u>Final connection of Ventilation fans complete with all required accessories to isolators provided by electrician</u>						
68	Extract Fan	No	1			
<b><u>DUCT FITTINGS</u></b>						
<b><u>dimensions are in mm</u></b>						
69	350x350 to 200ø - Transformation piece	No	1			
70	200ø to 250x200 - Transformation piece	No	1			
71	250x200 to 200x200 - Transformation piece	No	1			
72	300x200 Bend	No	1			
73	150ø Spigot	No	1			
74	200x200 End Cap	No	1			
<b><u>WEATHER LOUVRE</u></b>						
<u>Supply and installation of Weather Louvers with all accessories, AME or equal and approved</u>						
75	(WL) Extract air louvre - 350 x 350	No	1			
76	(WL) Fresh air - 400 x 400	No	2			
77	(WL) Fresh air - 600 x 200	No	2			
78	WL) Fresh air - 600 x 300	No	2			
79	(WL) Fresh air - 600 x 400	No	1			
				<b>Carried Forward</b>		R
				Section No. 9		
				Bill No. 2		
				Paeds & OPD		
<b>Project Code: ZNB 5579/2021-H</b>						

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Brought Forward			R
<b><u>AIR GRILLES</u></b>			
<u>Supply and installation of curved blade supply air grilles complete with all necessary fittings, fixings and accessories and colour coded to suit architects preference</u>			
80	Return air Grille - 600 x 600	No	25
<b><u>DIFFUSERS</u></b>			
<u>Supply and install Air outlets (Extract air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>			
81	150ø Diffuser ( EAD )	No	4
<b><u>AC INDOOR UNITS</u></b>			
<u>Supply &amp; install Split type Indoor &amp; Outdoor Units complete with all necessary insulated plenum box ducting for hide away units and canvass collars on (rectangular supply ducting), anti-vibration mountings, wired remote controllers, filter on unit intakes with bottom access hatches, fittings, fixings and accessories as scheduled and specified.</u>			
82	9.5 kW (HAU 1)	No	1
83	9.5 kW (HAU 2)	No	1
84	11,2 kW (HAU 3 & 7)	No	1
85	22,4 kW (HAU 4)	No	1
86	14 kW (HAU 5 & 6)	No	2
87	11,2 kW (HAU 7)	No	1
<b><u>REFRIGERATION PIPING</u></b>			
Carried Forward			R
Section No. 9 Bill No. 2 Paeds & OPD			
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<b>Brought Forward</b>			R
	<u>Supply and installation of refrigeration piping complete with support brackets, insulation, all exposed refrigeration pipes must be enclosed in sheet metal trunking. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>		
88	Indoor AC Units	m	45
	<b><u>CONDENSATE DRAIN PIPING</u></b>		
	<u>Supply and installation of condensate drain piping complete with hanger rods, and must be PVC pipes, with all required 75mm p-traps and required accessories. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>		
89	Indoor AC Units	m	50
	<b><u>CORROSION PROTECTION</u></b>		
	<u>Corrosion protection of the outdoor condensing unit coils, base plates, stainless steel replacement screws, frames complete with high pressure hose wash down &amp; combing of fins prior to application. Note Bluchem corrosion protection or equal and approved</u>		
90	Out door AC unit	No	7
	<b><u>CONTROLLERS</u></b>		
	<b><u>Complete with labels</u></b>		
91	HAU	No	7
	<b><u>DIFFUSERS</u></b>		
<b>Carried Forward</b>			R
Section No. 9 Bill No. 2 Paeds & OPD			
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<b>Brought Forward</b>			R
<u>Supply and install air outlets (supply air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>			
92	200 Diffuser (SAD)	No	14
93	250ø Diffuser (SAD)	No	21
<b><u>SHEET METAL DUCTING</u></b>			
<u>Supply and installation of externally insulated Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, 50mm sonic liner, and all required accessories. Ducting to be wrapped with 25mm duct insulation with 5 layers of fibreglass chop strand and resin over to match the external of the building, equally or similarly approved.</u>			
94	700x300	m	11
95	500x250	m	20
96	400x300	m	50
97	300x250	m	20
98	400x250	m	5
<b><u>SHEET METAL DUCTING</u></b>			
<u>Supply and installation of externally insulated round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, 50mm sonic liner, and all required accessories. Ducting to be wrapped with 25mm duct insulation with 5 layers of fibreglass chop strand and resin over to match the external of the building, equally or similarly approved.</u>			
99	20ø	m	30
100	250ø	m	50
<b>Carried Forward</b>			R
Section No. 9 Bill No. 2 Paeds & OPD			
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**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
<b><u>FLEXIBLE DUCTING</u></b>			
<u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u>			
101	200ø	m	20
102	250ø	m	50
<b><u>DUCT FITTINGS</u></b>			
<b><u>dimensions are in mm</u></b>			
103	700 x 300 to 400 x 300 - Transformation piece	No	1
104	600 x 300 to 300 x 300 - Transformation piece	No	1
105	300x300 Shoe piece	No	1
106	250ø Shoe piece	No	50
107	400x300 Elbow	No	4
108	500 x 250 End Cap	No	2
109	400 x 300 End Cap	No	4
110	400 x 250 End Cap	No	1
111	300 x 300 End Cap	No	1
<b><u>FIRE PROTECTION</u></b>			
<b>Carried Forward</b>			R
Section No. 9 Bill No. 2 Paeds & OPD			
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Brought Forward			R
<p><u>Fire Detection system installation work as per relevant SANS 10139, SANS 246, SANS 322 and project specifications. All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary, fittings, fixings &amp; painting. All rates are to include all necessary scaffolding, transport and affiliated costs. All signals to be connected to addressable fire control panel. Installation of conduits done by others.</u></p>			
112	Supply and install fire control panel	No	1
113	Supply and install break glass units c/w Translucent flip cover	No	3
114	Supply and install sounder complete with strobe	No	4
115	Supply and install optical smoke detectors	No	36
116	Supply and install PH30 cable for the entire fire detection system	m	600
117	Supply and install conduit for the entire fire detection	m	300
118	Interfacing fire detection system with the HVAC system		Item
119	Approval of the system by the Fire System Inspection Bureau		Item
120	Testing, Commissioning and approval of the entire detection system		Item
121	Operation & Maintenance Manuals ( soft copy and hard copies) c/w as built drawing		Item
122	Log book & Zone diagram		Item
Carried Forward			R
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Brought Forward			R
<b><u>FIRE SUPPRESSION EQUIPMENT</u></b>			
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>			
<b><u>Fire Hose Reel</u></b>			
<u>Supply and install Fire Hose Reel, complete with drum, wall mounted bracket, hose, pressure gauge, stop valve, durable nozzle, fitting and fixing as per technical specification</u>			
123	25mm diameter and 30m long hose	No	3
<b><u>Fire Extinguisher</u></b>			
<u>Supply and Install Fire Extinguishers, complete with 25mm thick timber backboards with hook brackets and all fixing as per technical specifications.</u>			
124	4.5kg DCP Fire Extinguisher	No	6
<b><u>FIRE WATER RETICULATION</u></b>			
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>			
<u>Supply and Install HDPE pipes laid in ground including backfilling and compating of trenches</u>			
125	32mm Pipes laid in and including excavation not exceeding 1m deep	m	9
<u>Supply and Install Galvanised Mild Steel pipe above ground</u>			
126	32mm diameter pipe	m	34
<b>Carried Forward</b>			R
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<b>Brought Forward</b>				R
127	25mm diameter pipe	m	48	
	<u>Extra over HDPE pipe for common fittings, bends, tees, reducers as per Specification.</u>			
128	32mm -25mm-Reducer	No	3	
129	32mm -32mm-Elbow	No	4	
	<u>Extra over GMS pipe for common fittings, bends, tees, reducers as per Specification.</u>			
130	25mm - 25mm -Elbow	No	12	
131	25mm - 25mm -25mm Tee	No	2	
132	32mm - 32mm -32mm Tee	No	2	
<b><u>STATUTORY EMERGENCY AND FIRE EQUIPMENT SIGNAGE</u></b>				
<u>Supply and install Photoluminescent Statutory Emergency and Fire Equipment Signage, complete with anodised aluminium frames, hooks, chains and all mechanical screw fixing as per technical specifications</u>				
133	E1 Flat (190mm modules)	No	2	
134	E2 Flat (190mm modules)	No	2	
135	E3 Flat (190mm modules)	No	2	
136	F4 Flat (190mm modules)	No	3	
137	F5 Flat (190mm modules)	No	3	
138	F6 Flat (190mm modules)	No	3	
139	F31 Flat (190mm modules)	No	3	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 2 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
140	E6, Self illuminated exit sign complete with own back up battery	No	5	
<b><u>SUNDRIES</u></b>				
141	Approval of the system by the Fire System Inspection Bureau		Item	
142	Commissioning and approval of the entire Fire Protection System		Item	
143	Connecting to existing fire ringmain supply		Item	
<b><u>MEDICAL GAS INSTALLATION (PROVISIONAL)</u></b>				
<b><u>Specification</u></b>				
<b><u>For specification to the relevant Bills of this Section refer to the Technical Specification</u></b>				
<b><u>Note: Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls.</u></b>				
<b><u>VALVE BOXES</u></b>				
<b><u>Provide the following valve box with the specified valves:</u></b>				
144	15mm Oxygen and 22mm Vacuum valve	No	2	
145	22mm Oxygen valve and 22mm Vacuum valve	No	1	
<b><u>MEDICAL GAS PIPING</u></b>				
146	15mm straight copper pipe	m	80	
147	22mm straight copper pipe	m	130	
<b><u>Extra over Class 2 copper pipes for brass capillary soldered fittings</u></b>				
<b>Carried Forward</b>				R
Section No. 9 Bill No. 2 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
		<u>Elbow Bends</u>		
148	15mm 90° copper elbow	No	20	
149	22mm 90° copper elbow	No	30	
		<u>T- Piece</u>		
150	22mm copper tees	No	15	
		<u>Reducers</u>		
151	22mm - 15mm reducer	No	10	
		<b><u>Bedhead Unit</u></b>		
152	Supply oxygen service outlet valves	No	4	
153	Supply vacuum service outlet valves	No	4	
154	Connection to oxygen valves for bedhead unit	No	4	
155	Connection to Vacuum valves for bedhead unit	No	4	
		<b><u>Bottle Trap and Filters</u></b>		
156	Bottle Trap	No	1	
157	Bottle Trap Valves "Crane"	No	3	
158	Dual Bacteria filter system	No	2	
159	22mm isolation valves	No	4	
		<b><u>Alarm Panel</u></b>		
160	Alarm Panel Supply and install medical gas and vacuum alarm panel	No	1	
		<b>Carried Forward</b>		
		Section No. 9 Bill No. 2 Paeds & OPD		
<b>Project Code: ZNB 5579/2021-H</b>		R		

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward		R
<b><u>OXYGEN BANK</u></b>				
161	Manufacture, supply, deliver and install a complete 2X3 oxygen manifold with auto change over, as per specification	No	1	
<b><u>Vacuum Pump</u></b>				
<u>Supply, deliver, install and commission 2 x Instruvac LB 40 supplied with horizontal vacuum tank, isolation valves, non-return valves and dust filter hosing an all interconnection pipes, including lead/lag control panel:</u>				
162	Packaged Vacuum Pump Unit	No	1	
<b><u>Sundries</u></b>				
163	Allow for painting as per specification		Item	
164	Allow for one year guarantee period		Item	
165	Allow for maintenance during 12 months guarantee period		Item	
166	Allow for testing and commissioning of the installation		Item	
<b>Carried Forward to Summary of Section No. 9</b>				R
		Section No. 9		
		Bill No. 2		
		Paeds & OPD		
<b>Project Code: ZNB 5579/2021-H</b>				



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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
<b><u>Multilayer Mepla piping complete with content labelling and direction of flow indicators including supporting at centres as detailed in the specifications:</u></b>			
8	20mm diameter pipes	m	80
9	26mm diameter pipes	m	15
10	32mm diameter pipes	m	20
11	40mm diameter pipes	m	50
<b><u>Extra over Multilayer Mepla piping fittings:</u></b>			
<u>T-Pieces</u>			
12	20mm diameter T-piece	No	3
13	32mm diameter T-piece	No	7
14	40mm diameter T-piece	No	4
<u>Elbows</u>			
15	20 diameter elbow	No	25
16	26 diameter elbow	No	15
17	32 diameter elbow	No	5
18	40 diameter elbow	No	10
<u>Reducers</u>			
19	26mm diameter to 20mm diameter reducer	No	1
20	32mm diameter to 20mm diameter reducer	No	8
21	32mm diameter to 26mm diameter reducer	No	4
22	40mm diameter to 26mm diameter reducer	No	2
<b>Carried Forward</b>			R
Section No. 9 Bill No. 3 Mortuary			
<b>Project Code: ZNB 5579/2021-H</b>			

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		<b>Brought Forward</b>		R
23	40mm diameter to 32mm diameter reducer	No	6	
24	40mm diameter to 20mm diameter reducer	No	2	
<u>Taps and Valves.</u>				
25	20mm Ball valve.	No	8	
26	26mm Ball valve.	No	4	
27	40mm Ball valve.	No	2	
<b><u>Multilayer Mepla piping including Insulation as per Specification</u></b>				
28	20mm diameter pipes	m	60	
29	26mm diameter pipes	m	40	
<b><u>Multilayer Mepla piping Extra on insulation for:</u></b>				
<u>T-Pieces</u>				
30	20mm diameter T-piece	No	3	
31	26mm diameter T-piece	No	2	
<u>Elbows</u>				
32	20 diameter elbow	No	15	
33	26 diameter elbow	No	7	
<u>Reducers</u>				
34	26mm diameter to 20mm diameter reducer	No	3	
<u>Taps and Valves</u>				
35	20mm Ball valve.	No	5	
36	20mm Ball valve.	No	2	
<b>Carried Forward</b>				R
Section No. 9				
Bill No. 3				
Mortuary				
<b>Project Code: ZNB 5579/2021-H</b>				

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward				R
<b><u>HVAC</u></b>				
<b><u>VENTILATION FANS</u></b>				
<u>Supply and installation of ventilation fans complete with hanger rods and support brackets, anti-vibration rubber supports, and all required accessories to successfully operate</u>				
37	(EF1) Extract Fan - Inline ducted - 133l/s @120Pa	No	1	
38	(EF2) Extract Fan - Inline ducted - 444l/s @120Pa	No	1	
<b><u>SHEET METAL DUCTING</u></b>				
<u>Supply and installation of Round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>				
39	150ø	m	8	
40	200ø	m	8	
<b><u>FLEXIBLE DUCTING</u></b>				
<u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u>				
41	150ø	m	6	
42	200ø	m	7	
<b><u>SHEET METAL DUCTING</u></b>				
<u>Supply and installation of Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>				
43	400x300	m	4	
44	300x300	m	7	
45	300x200	m	8	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 3 Mortuary				
<b>Project Code: ZNB 5579/2021-H</b>				

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Brought Forward			R
<b><u>ELECTRICAL CONNECTION</u></b>			
<u>Final connection of Ventilation fans complete with all required accessories to isolators provided by electrician</u>			
46	Extract Fan	No	3
<b><u>DUCT FITTINGS</u></b>			
<b><u>dimensions are in mm</u></b>			
47	300x300 to 200ø - Transformation piece	No	1
48	500x500 to 250ø - Transformation piece	No	1
49	200ø to 300x200 - Transformation piece	No	1
50	250ø to 400x300 - Transformation piece	No	1
51	400x300 to 300x300 - Transformation piece	No	1
52	300x200 Bend	No	1
53	200ø Spigot	No	6
54	150ø Spigot	No	6
55	300x300 End Cap	No	1
56	300x200 End Cap	No	1
<b><u>WEATHER LOUVRES</u></b>			
<u>Supply and installation of Weather Louvers with all accessories, AME or equal and approved</u>			
57	(WL 2) Extract air louvre - 500x 500	No	1
58	(WL3) Fresh Aire - 300x 300	No	1
<b>Carried Forward</b>			R
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Brought Forward			R
<b><u>AIR GRILLES</u></b>			
<u>Supply and installation of curved blade supply air grilles complete with all necessary fittings, fixings and accessories and colour coded to suit architects preference</u>			
59	Door Grille - 200x200	No	2
60	Return air Grille - 600x600	No	4
<b><u>DIFFUSERS</u></b>			
<u>Supply and install Air outlets (Extract air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>			
61	150ø Diffuser ( EAD )	No	4
62	200ø Diffuser ( EAD )	No	4
<b><u>AC INDOOR UNITS</u></b>			
<u>Supply &amp; install Split type Indoor &amp; Outdoor Units complete with all necessary insulated plenum box ducting for hide away units and canvass collars on (rectangular supply ducting), anti-vibration mountings, wired remote controllers, filter on unit intakes with bottom access hatches, fittings, fixings and accessories as scheduled and specified.</u>			
63	18 kW (HAU 1)	No	1
64	1.5kW (MW 1)	No	1
<b><u>REFRIGERATION PIPING</u></b>			
<b>Carried Forward</b>			R
Section No. 9 Bill No. 3 Mortuary			
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<b>Brought Forward</b>			R
	<u>Supply and installation of refrigeration piping complete with support brackets, insulation, all exposed refrigeration pipes must be enclosed in sheet metal trunking. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>		
65	Indoor AC Units	m	25
	<b><u>CONDENSATE DRAIN PIPING</u></b>		
	<u>Supply and installation of condensate drain piping complete with hanger rods, and must be PVC pipes, with all required 75mm p-traps and required accessories. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>		
66	Indoor AC Units	m	25
	<b><u>CORROSION PROTECTION</u></b>		
	<u>Corrosion protection of the outdoor condensing unit coils, base plates, stainless steel replacement screws, frames complete with high pressure hose wash down &amp; combing of fins prior to application. Note Bluchem corrosion protection or equal and approved</u>		
67	Out door AC unit	No	2
	<b><u>CONTROLLERS</u></b>		
	<u>complete with labels</u>		
68	HAU 1	No	1
69	ODU 1	No	1
	<b><u>DIFFUSERS</u></b>		
<b>Carried Forward</b>			R
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<b>Brought Forward</b>			R
	<u>Supply and install Air outlets (supply air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>		
70	200ø Diffuser ( SAD) <span style="float: right;">No</span>	6	
	<b><u>SHEET METAL DUCTING</u></b>		
	<u>Supply and installation of externally insulated Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, 50mm sonic liner, and all required accessories. Ducting to be wrapped with 25mm duct insulation with 5 layers of fibreglass chop strand and resin over to match the external of the building, equally or similarly approved.</u>		
71	500x400 <span style="float: right;">m</span>	8	
72	400x300 <span style="float: right;">m</span>	8	
	<b><u>SHEET METAL DUCTING</u></b>		
	<u>Supply and installation of externally insulated round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, 50mm sonic liner, and all required accessories. Ducting to be wrapped with 25mm duct insulation with 5 layers of fibreglass chop strand and resin over to match the external of the building, equally or similarly approved.</u>		
73	250ø <span style="float: right;">m</span>	10	
	<b><u>FLEXIBLE DUCTING</u></b>		
	<u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u>		
74	250ø <span style="float: right;">m</span>	8	
	<b><u>DUCT FITTINGS</u></b>		
	<u>dimensions are in mm</u>		
<b>Carried Forward</b>			R
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		Brought Forward		R
75	500 x 400 to 400 x 300 - Transformation piece	No	1	
76	600 x 300 to 300 x 300 - Transformation piece	No	1	
77	300x300 Shoe piece	No	1	
78	250ø Shoe piece	No	7	
79	500x400 Elbow	No	1	
80	250ø Elbow	No	1	
81	400 x 300 End Cap	No	1	
<b><u>FIRE PROTECTION</u></b>				
<b><u>FIRE SUPPRESSION EQUIPMENT</u></b>				
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>				
<u>Fire Extinguisher</u>				
<u>Supply and Install Fire Extinguishers, complete with 25mm thick timber backboards with hook brackets and all fixing as per technical specifications.</u>				
82	4.5kg DCP Fire Extinguisher	No	2	
<b><u>STATUTORY EMERGENCY AND FIRE EQUIPMENT SIGNAGE</u></b>				
<u>Supply and install Photoluminescent Statutory Emergency and Fire Equipment Signage, complete with anodised aluminium frames, hooks, chains and all mechanical screw fixing as per technical specifications</u>				
83	E3 Flat (190mm modules)	No	4	
84	F13 Flat (190mm modules)	No	2	
		<b>Carried Forward</b>		R
		Section No. 9 Bill No. 3 Mortuary		
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	<b>Brought Forward</b>			R
85	E6, self illuminated exit sign complete with own back up battery	No	3	
<b>Carried Forward to Summary of Section No. 9</b>				R
Section No. 9 Bill No. 3 Mortuary				
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			Brought Forward		R
9	32mm diameter pipes	m		30	
<b><u>Extra over Multilayer Mepla piping fittings:</u></b>					
<u>T-Pieces</u>					
10	20mm diameter T-piece	No		3	
11	32mm diameter T-piece	No		3	
<u>Elbows</u>					
12	20 diameter elbow	No		10	
13	26 diameter elbow	No		4	
14	32 diameter elbow	No		6	
<u>Reducers</u>					
15	32mm diameter to 20mm diameter reducer	No		2	
16	32mm diameter to 26mm diameter reducer	No		2	
<u>Taps, Valves.</u>					
17	20mm Ball valve.	No		3	
18	26mm Ball valve.	No		1	
19	32mm Ball valve.	No		1	
<b><u>Hot Water Generation</u></b>					
20	Supply, install and 5 Litres Hydroboil	No		1	
<b><u>HVAC</u></b>					
<b><u>Ventilation Fans</u></b>					
			<b>Carried Forward</b>		R
			Section No. 9		
			Bill No. 4		
			Bulk Pharmacy		
<b>Project Code: ZNB 5579/2021-H</b>					

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			R
	<u>Supply and installation of ventilation fans complete with hanger rods and support brackets, anti-vibration rubber supports, and all required accessories to successfully operate</u>		
21	(EF1) Extract Fan - Inline ducted - 107l/s @120Pa	No	1
	<b><u>Sheet Metal Ducting</u></b>		
	<u>Supply and installation of Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>		
22	200x300	m	8
	<b><u>Electrical Connection</u></b>		
	<u>Final connection of Ventilation fans complete with all required accessories to isolators provided by electrician</u>		
23	Extract Fan	No	1
	<b><u>Duct Fittings</u></b>		
	<b><u>dimensions are in mm</u></b>		
24	250x250 to 200ø - Transformation piece	No	1
25	200ø to 200x200 - Transformation piece	No	1
26	200ø Spigot	No	6
27	200x150 Spigot	No	1
28	200x200 End Cap	No	1
	<b><u>Weather Louvers</u></b>		
<b>Carried Forward</b>			R
Section No. 9 Bill No. 4 Bulk Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
	<u>Supply and installation of Weather Louvers with all accessories, AME or equal and approved</u>		
29	(WL 1) Extract air louvre - 250x 250	No	1
	<b><u>Air Grilles</u></b>		
	<u>Supply and installation of curved blade supply air grilles complete with all necessary fittings, fixings and accessories and colour coded to suit architects preference</u>		
30	Extract air Grille - 200x150	No	3
	<b><u>AC Indoor Units</u></b>		
	<u>Supply &amp; install Split type Indoor &amp; Outdoor Units complete with all necessary insulated plenum box ducting for hide away units and canvass collars on (rectangular supply ducting), anti-vibration mountings, wired remote controllers, filter on unit intakes with bottom access hatches, fittings, fixings and accessories as scheduled and specified.</u>		
31	14 kW (CU 1)	No	2
	<b><u>Refrigeration Piping</u></b>		
	<u>Supply and installation of refrigeration piping complete with support brackets, insulation, all exposed refrigeration pipes must be enclosed in sheet metal trunking. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>		
32	Indoor AC Units	m	20
	<b><u>Condensate Drain Piping</u></b>		
<b>Carried Forward</b>			R
Section No. 9 Bill No. 4 Bulk Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			



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<b>Brought Forward</b>		R
	<u>Maintenance and Guarantee</u>	
37	The Contractor shall make provision for 1 x Full years, Maintenance and Guarantee of the entire installation. 11 x Standard Maintenance visits and 1 x Major service is required throughout the 12 months.	Item
	<u>Commissioning</u>	
38	The lift installation shall be tested and commissioned, the COC shall be issued by a Registered Lift Inspector.	Item
	<u>Hand Over</u>	
39	Traning, O&M documatiotion handed over to client	Item
	<u>Workshop drawings</u>	
40	Paper and electronic	Item
	<u>As Built Drawings</u>	
41	The contractor shall make provision for a detailed set of as fitted layout drawings of the entire installation, as the project progresses. Refer to standard detailed specification regarding project drawings.	Item
<b><u>FIRE PROTECTION</u></b>		
<b>Carried Forward</b>		R
Section No. 9 Bill No. 4 Bulk Pharmacy		
<b>Project Code: ZNB 5579/2021-H</b>		

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
<b><u>FIRE DETECTION</u></b>			
<b><u>Fire Detection system installation work as per relevant SANS 10139, SANS 246, SANS 322 and project specifications. All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary, fittings, fixings &amp; painting. All rates are to include all necessary scaffolding, transport and affiliated costs. All signals to be connected to addressable fire control panel. Installation of conduits done by others.</u></b>			
42	Supply and install break glass units c/w Translucent flip cover	No	2
43	Supply and install sounder complete with strobe	No	1
44	Supply and install optical smoke detectors	No	4
45	Supply and install PH30 cable for the entire fire detection system	m	80
46	Supply and install conduit for the entire fire detection	m	40
<b><u>FIRE SUPPRESSION EQUIPMENT</u></b>			
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>			
<b><u>Fire Extinguisher</u></b>			
<b><u>Supply and Install Fire Extinguishers, complete with 25mm thick timber backboards with hook brackets and all fixing as per technical specifications.</u></b>			
47	4.5kg DCP Fire Extinguisher	No	2
<b><u>STATUTORY EMERGENCY AND FIRE EQUIPMENT SIGNAGE</u></b>			
Carried Forward			R
Section No. 9 Bill No. 4 Bulk Pharmacy			
Project Code: ZNB 5579/2021-H			

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			<b>R</b>
	<u>Supply and install Photoluminescent Statutory Emergency and Fire Equipment Signage, complete with anodised aluminium frames, hooks, chains and all mechanical screw fixing as per technical specifications</u>		
48	E2 Flat (190mm modules)	No	1
49	F13 Flat (190mm modules)	No	2
50	F31 Flat (190mm modules)	No	2
51	E6, Self illuminated exit sign complete with own back up battery	No	2
	<b><u>SUNDRIES</u></b>		
52	Approval of the system by the Fire System Inspection Bureau		Item
53	Commissioning and approval of the entire Fire Protection System		Item
<b>Carried Forward to Summary of Section No. 9</b>			<b>R</b>
Section No. 9			
Bill No. 4			
Bulk Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA

Item No		Quantity	Rate	Amount
<b><u>SECTION 10 - MECHANICAL WORKS</u></b>				
<b><u>BILL NO. 5</u></b>				
<b><u>OUTSOURCE LAUNDRY</u></b>				
<b><u>WET SERVICES</u></b>				
<b><u>INTERNAL DRAINAGE</u></b>				
<u>HDPE pipes with solvent welded joints</u>				
1	110mm Pipes fixed on the wall including pipe hangers	m	20	
2	50mm Pipes fixed on the wall including pipe hangers	m	60	
<u>Extra over HDPE pipes for fittings with solvent welded joints</u>				
3	110mm Fitting	No	30	
4	56mm Fitting	No	60	
<u>Concrete Gully fitted with accessories</u>				
5	110mm Gully with grid	No	1	
<u>Rodding Eye fitted with cover</u>				
6	110mm Rodding Eye with cover	No	1	
<b><u>DOMESTIC WATER RETICULATION</u></b>				
<b><u>Multilayer Mepla piping complete with content labelling and direction of flow indicators including supporting at centres as detailed in the specifications:</u></b>				
7	20mm diameter pipes	m	70	
8	26mm diameter pipes	m	40	
<b>Carried Forward</b>				
Section No. 9				
Bill No. 5				
Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				
			R	

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 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>				R
9	32mm diameter pipes	m	35	
10	40mm diameter pipes	m	25	
11	50mm diameter pipes	m	30	
<b><u>Extra over Multilayer Mepla piping fittings:</u></b>				
<u>T-Pieces</u>				
12	20mm diameter T-piece	No	10	
13	26mm diameter T-piece	No	10	
14	32mm diameter T-piece	No	15	
15	40mm diameter T-piece	No	6	
16	50mm diameter T-piece	No	3	
<u>Elbows</u>				
17	20 diameter elbow	No	60	
18	26 diameter elbow	No	20	
19	40 diameter elbow	No	6	
<u>Reducers</u>				
20	26mm diameter to 20mm diameter reducer	No	8	
21	32mm diameter to 20mm diameter reducer	No	8	
22	32mm diameter to 26mm diameter reducer	No	10	
23	40mm diameter to 20mm diameter reducer	No	3	
24	40mm diameter to 26mm diameter reducer	No	3	
25	50mm diameter to 26mm diameter reducer	No	3	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 5 Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

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Brought Forward				R
<u>Taps and Valves.</u>				
26	20mm Ball valve.	No	20	
27	26mm Ball valve.	No	2	
28	50mm Ball valve.	No	1	
<b><u>Multilayer Mepla piping including Insulation as per Specification</u></b>				
29	20mm diameter pipes	m	50	
30	32mm diameter pipes	m	25	
31	40mm diameter pipes	m	50	
<b><u>Multilayer Mepla piping Extra on insulation for:</u></b>				
<u>T-Pieces</u>				
32	20mm diameter T-piece	No	10	
33	26mm diameter T-piece	No	3	
34	40mm diameter T-piece	No	6	
<u>Elbows</u>				
35	20 diameter elbow	No	43	
36	26 diameter elbow	No	6	
37	40 diameter elbow	No	6	
<u>Reducers</u>				
38	26mm diameter to 20mm diameter reducer	No	8	
39	40mm diameter to 20mm diameter reducer	No	4	
40	40mm diameter to 26mm diameter reducer	No	2	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 5 Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>			R
41	40mm diameter to 32mm diameter reducer	No	2
	<u>Taps and Valves.</u>		
42	20mm Ball valve.	No	8
43	40mm Ball valve.	No	2
<b><u>HOT WATER GENERATION</u></b>			
44	For the complete supply, delivery and installation of a 19kW TKRS-200E/SN2-M- THERMOWISE Air to Water Heat Pump (with Smart Colour Touchscreen controller) heating reservoir water to a temperature of between 55 - 60°C, with minimum ambient temperature of -15°C, including automatic defrost cycle, all safety features, thermostats, controls, connection to Isolators, with maximum noise level of 70dB(A), fittings, insulation, cladding, bends,tees, and necessary accessories as specified. All pipework interconnection between Hot Water Storage Vessel and heat pumps to be fitted with lagging as specified , including PVC drains to nearest drainage point. Standard Casing	No	1
45	For the complete supply, delivery and installation of a 1600 ltr TC-016_1 Sirac Thermotube Heat Accumulator, constructed from 43kg/m³ polyurethane foamed between two Chromadek sheets. The unique patented panel design eliminates temperature "bridging" and gives the tank outstanding strength and insulation properties with an R-value of >2.65. The heat exchangers are fabricated from 316L stainless steel spiral corrugated tubing with 0,3mm wall thickness which provides exceptional heat transfer properties. The large bore tube provides the necessary surface area to afford exceptional efficiency with a low water pressure drop. These heat exchangers have a maximum operating pressure of 1000kPa. (Backup Heating as Optional Extra specified below)	No	1
<b><u>CIRCULATION PUMPS (Include Installation)</u></b>			
46	(Primary Circulation pump for Heat Pump)	No	1
<b>Carried Forward</b>			R
Section No. 9 Bill No. 5 Outsource Laundry			
<b>Project Code: ZNB 5579/2021-H</b>			

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			Brought Forward		R
47	(Hot Water Return circulation pump)	No	1		
48	Electrical Connection and wiring of Equipment and commisioning	No	2		
<p><b><u>For the complete supply, delivery and installation of supply piping as specified, between HWS Vessels and Heat pumps, inclusive of all insulation, cladding, bracketing , fittings, valves, strainers, non return valves.</u></b></p>					
49	Complete Mepla installation				SUM
<p><b><u>HVAC</u></b></p> <p><b><u>VENTILATION FANS</u></b></p> <p><u>Supply and installation of ventilation fans complete with suction and discharge sound attenuators with hanger rods and support brackets, anti-vibration rubber supports, and all required accessories to successfully operate</u></p>					
50	(EF1) Extract Fan - Inline ducted - 640l/s @120Pa	No	2		
<p><b><u>SHEET METAL DUCTING</u></b></p> <p><u>Supply and installation of Round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u></p>					
51	150ø	m	35		
52	200ø	m	20		
<p><b><u>FLEXIBLE DUCTING</u></b></p> <p><u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u></p>					
53	150ø	m	20		
<b>Carried Forward</b>					R
Section No. 9					
Bill No. 5					
Outsource Laundry					
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				Brought Forward		R
54	200ø	m	10			
<b><u>SHEET METAL DUCTING</u></b>						
<u>Supply and installation of Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>						
55	500x300	m	15			
56	400x300	m	20			
57	300x200	m	6			
58	200x300	m	6			
59	200x200	m	15			
<b><u>ELECTRICAL CONNECTION</u></b>						
<u>Final connection of Ventilation fans complete with all required accessories to isolators provided by electrician</u>						
60	Extract Fan	No	2			
<b><u>DUCT FITTINGS</u></b>						
<b><u>dimensions are in mm</u></b>						
61	600x600 to 315ø - Transformation piece	No	2			
62	315ø to 500x300 - Transformation piece	No	2			
63	500x300 to 400x300 - Transformation piece	No	2			
64	400x300 to 200x200 - Transformation piece	No	1			
65	200ø to 150ø - Transformation piece	No	3			
66	300x200 Bend	No	1			
				<b>Carried Forward</b>		R
				Section No. 9		
				Bill No. 5		
				Outsource Laundry		
				<b>Project Code: ZNB 5579/2021-H</b>		

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		Brought Forward		R
67	200x200 Bend	No	1	
68	300x200 Sigot	No	1	
69	200x300 Sigot	No	1	
70	200x200 Sigot	No	1	
71	200ø Spigot	No	5	
72	150ø Spigot	No	20	
73	200x200 End Cap	No	2	
74	400x300 End Cap	No	1	
<b><u>WEATHER LOUVRES</u></b>				
<u>Supply and installation of Weather Louvers with all accessories, AME or equal and approved</u>				
75	(WL) Extract air - 600x 600	No	2	
<b><u>AIR GRILLES</u></b>				
<u>Supply and installation of curved blade supply air grilles complete with all necessary fittings,fixing sand accessories and colour coded to suit architects preference</u>				
76	Door Grille - 200x200	No	2	
<b><u>DIFFUSERS</u></b>				
<b>Carried Forward</b>				R
Section No. 9				
Bill No. 5				
Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
<u>Supply and install Air outlets (Extract air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>				
77	150ø Diffuser ( EAD )	No	21	
78	150ø Diffuser ( EAD )	No	4	
<b><u>FIRE PROTECTION</u></b>				
<b><u>FIRE DETECTION</u></b>				
<u>Fire Detection system installation work as per relevant SANS 10139, SANS 246, SANS 322 and project specifications. All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary, fittings, fixings &amp; painting. All rates are to include all necessary scaffolding, transport and affiliated costs. All signals to be connected to addressable fire control panel. Installation of conduits done by others.</u>				
79	Supply and install fire control panel	No	1	
80	Supply and install break glass units c/w Translucent flip cover	No	1	
81	Supply and install sounder complete with strobe	No	3	
82	Supply and install optical smoke detectors	No	16	
83	Supply and install PH30 cable for the entire fire detection system	m	150	
84	Supply and install conduit for the entire fire detection	m	75	
85	Interfacing fire detection system with the HVAC system		Item	
86	Approval of the system by the Fire System Inspection Bureau		Item	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 5 Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
87	Testing, Commissioning and approval of the entire detection system		Item	
88	Operation & Maintenance Manuals ( soft copy and hard copies) c/w as built drawing		Item	
89	Log book & Zone diagram		Item	
<b><u>FIRE SUPPRESSION EQUIPMENT</u></b>				
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>				
<u>Fire Hose Reel</u> <u>Supply and install Fire Hose Reel, complete with drum, wall mounted bracket, hose, pressure gauge, stop valve, durable nozzle, fitting and fixing as per technical specification</u>				
90	25mm diameter and 30m long hose	No	1	
<b><u>Fire Extinguisher</u></b>				
<b><u>Supply and Install Fire Extinguishers, complete with 25mm thick timber backboards with hook brackets and all fixing as per technical specifications.</u></b>				
91	4.5kg DCP Fire Extinguisher	No	3	
<b><u>FIRE WATER RETICULATION</u></b>				
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>				
<u>Supply and Install HDPE pipes laid in ground including backfilling and compating of trenches</u>				
92	32mm Pipes laid in and including excavation not exceeding 1m deep	m	10	
		<b>Carried Forward</b>		R
		Section No. 9 Bill No. 5 Outsource Laundry		
		<b>Project Code: ZNB 5579/2021-H</b>		

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<b>Brought Forward</b>				R
	<u>Supply and Install Galvanised Mild Steel pipe above ground</u>			
93	25mm diameter pipe	m	20	
	<u>Extra over HDPE pipe for common fittings, bends, tees, reducers as per Specification.</u>			
94	32mm -25mm-Reducer	No	2	
95	32mm -32mm-Elbow	No	2	
	<u>Extra over GMS pipe for common fittings, bends, tees, reducers as per Specification.</u>			
96	25mm - 25mm -Elbow	No	7	
	<b><u>STATUTORY EMERGENCY AND FIRE EQUIPMENT SIGNAGE</u></b>			
	<u>Supply and install Photoluminescent Statutory Emergency and Fire Equipment Signage, complete with anodised aluminium frames, hooks, chains and all mechanical screw fixing as per technical specifications</u>			
97	E1 Flat (190mm modules)	No	1	
98	E2 Flat (190mm modules)	No	1	
99	E3 Flat (190mm modules)	No	3	
100	F4 Flat (190mm modules)	No	1	
101	F5 Flat (190mm modules)	No	1	
102	F6 Flat (190mm modules)	No	1	
103	F13 Flat (190mm modules)	No	1	
104	F31 Flat (190mm modules)	No	1	
105	E6, Self illuminated exit sign complete with own back up battery	No	3	
	<b>Carried Forward to Summary of Section No. 9</b>			R
	Section No. 9			
	Bill No. 5			
	Outsource Laundry			
	<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Quantity	Rate	Amount
<b><u>SECTION 10 - MECHANICAL WORKS</u></b>				
<b><u>BILL NO. 6</u></b>				
<b><u>NEW MAIN LAUNDRY</u></b>				
<b><u>WET SERVICES</u></b>				
<b><u>INTERNAL DRAINAGE</u></b>				
<u>HDPE pipes with solvent welded joints</u>				
1	110mm Pipes fixed on the wall including pipe hangers	m	40	
2	56mm Pipes fixed on the wall including pipe hangers	m	75	
<u>Extra over HDPE pipes for fittings with solvent welded joints</u>				
3	110mm Fitting	No	20	
4	56mm Fitting	No	60	
<u>Concrete Gully fitted with accessories</u>				
5	110mm Gully with grid	No	2	
<u>Rodding Eye fitted with cover</u>				
6	110mm Rodding Eye with cover	No	1	
<b><u>DOMESTIC WATER RETICULATION</u></b>				
<b><u>Multilayer Mepla piping complete with content labelling and direction of flow indicators including supporting at centres as detailed in the specifications:</u></b>				
7	20mm diameter pipes	m	175	
8	26mm diameter pipes	m	50	
<b>Carried Forward</b>				
Section No. 9				
Bill No. 6				
Main Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				
				R

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<b>Brought Forward</b>				R
9	32mm diameter pipes	m	40	
10	40mm diameter pipes	m	30	
11	50mm diameter pipes	m	10	
<b><u>Extra over Multilayer Mepla piping fittings:</u></b>				
<u>T-Pieces</u>				
12	20mm diameter T-piece	No	10	
13	32mm diameter T- cross	No	2	
14	32mm diameter T-piece	No	12	
15	40mm diameter T-piece	No	8	
16	50mm diameter T-piece	No	3	
<u>Elbows</u>				
17	20 diameter elbow	No	60	
18	26 diameter elbow	No	20	
19	32 diameter elbow	No	3	
20	40 diameter elbow	No	6	
<u>Reducers</u>				
21	32mm diameter to 20mm diameter reducer	No	8	
22	32mm diameter to 26mm diameter reducer	No	6	
23	40mm diameter to 20mm diameter reducer	No	8	
24	40mm diameter to 26mm diameter reducer	No	3	
25	50mm diameter to 32mm diameter reducer	No	3	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 6 Main Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward				R
<u>Taps, Valves.</u>				
26	20mm Ball valve.	No	20	
27	26mm Ball valve.	No	6	
28	50mm Ball valve.	No	1	
<b><u>Multilayer Mepla piping including Insulation as per Specification</u></b>				
29	20mm diameter pipes	m	120	
30	26mm diameter pipes	m	25	
31	32mm diameter pipes	m	44	
<b><u>Multilayer Mepla piping Extra on insulation for:</u></b>				
<u>T-Pieces</u>				
32	20mm diameter T-piece	No	8	
33	26mm diameter T-piece	No	4	
34	32mm diameter T-piece	No	3	
35	32mm diameter T-Cross	No	3	
<u>Elbows</u>				
36	20 diameter elbow	No	45	
37	26 diameter elbow	No	3	
38	32 diameter elbow	No	4	
<u>Reducers</u>				
39	26mm diameter to 20mm diameter reducer	No	8	
40	32mm diameter to 20mm diameter reducer	No	4	
<b>Carried Forward</b>				R
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<b>Brought Forward</b>			R
41	32mm diameter to 26mm diameter reducer	No	4
42	40mm diameter to 32mm diameter reducer	No	2
<u>Taps and Valves.</u>			
43	20mm Ball valve.	No	13
44	32mm Ball valve.	No	1
<b><u>Supply and install laundry equipment</u></b>			
45	Tullis Model MAQ B-35 E 35kg (1:10) or 39kg 11:9) Medium speed extract 200G hard microprocessor controlled ' Touch Plus' self heating washer extractor. Complete with automatic liquid dosing- 8 signals, manual soap box and intelligent weighing system. Suitable for 400 volts electricity supply. Machine dimensions ( 979mm W x 1066mm D x 1411mm H). Net weight: 473kg	No	1
46	Tullis Model MAQ B-22 E 22kg (1:10) or 25kg 11:9) Medium speed extract 200G hard microprocessor controlled ' Touch Plus' self heating washer extractor. Complete with automatic liquid dosing- 8 signals, manual soap box and intelligent weighing system. Suitable for 400 volts electricity supply. Machine dimensions ( 788mm W x 950mm D x 1307mm H). Net weight: 300kg	No	3
47	Tullis Model S-660 E 33kg(1:20) or 37kg ( 1:18) Heavy duty industrial microprocessor controlled (TP2) tumble dryer inverter driven with iDRY intelligent humidity control. Reversing stainless steel drum complete with mixed airflow ( both radial and axial). Suitable for 400 volts electricity supply. Machine dimensions ( 985mm W x 1210mm D x 1975mm H).Net weight: 260kg	No	2
<b>Carried Forward</b>			R
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<b>Brought Forward</b>			R
48	Tullis Model S-900 E 45kg(1:20) or 50kg ( 1:18) Heavy duty industrial microprocessor controlled (TP2) tumble dryer inverter driven with iDRY intelligent humidity control. Reversing stainless steel drum complete with mixed airflow ( both radial and axiall). Suitable for 400 volts electricity supply. Machine dimensions ( 1270mm W x 1106mm D x 2380mm H).Net weight: 395kg	No	1
49	Tullis Model MAQ B-35 SL 35kg(1:9)Heavy duty industrial microprocessor controlled sluice machine with 8mm perforations. Suitable for 220 volts.( no heating) electricity supply. Dimensions: ( 979mm W x 1140mm D x 1411mm H). Net weight 468kg	No	1
50	Girbau Model PB5125 EL 2530mm x 510mm Ø Roll heavy duty industrial return feed calendardrying ironer. Suitable for 380 volts electricity supply. Machine dimensions :( 3470mm W x 1173mm D x 1630mm H). Net weight 1265kg	No	1
<b><u>HVAC</u></b>			
<b><u>VENTILATION FANS</u></b>			
<u>Supply and installation of ventilation fans complete with suction and discharge sound attenuators with hanger rods and support brackets, anti-vibration rubber supports, and all required accessories to successfully operate</u>			
51	(EAF 1) Extract Fan - Inline ducted - 844l/s @120Pa	No	1
52	(EAF 2) Extract Fan - Inline ducted - 676l/s @120Pa	No	1
53	(EAF 3) Extract Fan - Inline ducted - 978l/s @120Pa	No	1
<b><u>SHEET METAL DUCTING</u></b>			
<u>Supply and installation of Round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>			
54	150ø	m	11
<b>Carried Forward</b>			R
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				Brought Forward		R
55	200ø	m	21			
<b><u>FLEXIBLE DUCTING</u></b>						
<u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u>						
56	150ø	m	16			
<b><u>SHEET METAL DUCTING</u></b>						
<u>Supply and installation of Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>						
57	600x300	m	8			
58	550x300	m	13			
59	500x300	m	15			
60	450x300	m	8			
61	400x300	m	7			
62	350x300	m	6			
63	300x200	m	15			
<b><u>ELECTRICAL CONNECTION</u></b>						
<u>Final connection of Ventilation fans complete with all required accessories to isolators provided by electrician</u>						
64	Extract Fans	No	3			
<b><u>DUCT FITTINGS</u></b>						
<b><u>dimensions are in mm</u></b>						
65	900x600 to 450ø - Transformation piece	No	1			
				<b>Carried Forward</b>		R
				Section No. 9		
				Bill No. 6		
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		<b>Brought Forward</b>		R
66	800x600 to 355ø - Transformation piece	No	1	
67	700x600 to 315ø - Transformation piece	No	1	
68	450ø to 600x300 - Transformation piece	No	1	
69	355ø to 550x300 - Transformation piece	No	1	
70	315ø to 450x300 - Transformation piece	No	1	
71	400 x 300 to 300 x 200 - Transformation piece	No	1	
72	550 x 300 to 500 x 300 - Transformation piece	No	1	
73	450 x 300 to 400 x 300 - Transformation piece	No	1	
74	600 x 300 to 350 x 300 - Transformation piece	No	1	
75	600 x 300 Bend	No	1	
76	550 x 300 Bend	No	2	
77	500 x 300 Bend	No	1	
78	450 x 300 Bend	No	1	
79	300 x 200 Bend	No	2	
80	200ø Bend	No	1	
81	150ø Bend	No	1	
82	150ø Spigot	No	12	
83	200ø Spigot	No	4	
84	200ø End Cap	No	4	
85	500x300 End Cap	No	2	
86	350x300 End Cap	No	2	
		<b>Carried Forward</b>		R
		Section No. 9 Bill No. 6 Main Laundry		
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			Brought Forward		R
87	300x200 End Cap	No	2		
	<b><u>WEATHER LOUVRES</u></b>				
	<u>Supply and installation of Weather Louvers with all accessories, AME or equal and approved</u>				
88	WL 1 - 800x 600	No	1		
89	WL 2 - 700x 600	No	1		
90	WL 3 - 900x 600	No	1		
	<b><u>AIR GRILLES</u></b>				
	<u>Supply and installation of curved blade extract air grilles complete with all necessary fittings, fixings and accessories and colour coded to suit architects preference</u>				
91	Extract Air grille- 400x150	No	2		
92	Extract Air grille- 500x200	No	10		
93	Extract Air grille- 300x200	No	4		
	<b><u>Disc Valves</u></b>				
	<u>Supply and install Air outlets (extract air disc valves) complete with all necessary fittings.</u>				
94	150ø Disc Valves (EDV)	No	12		
	<b><u>AC INDOOR UNITS</u></b>				
			<b>Carried Forward</b>		R
			Section No. 9		
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			Main Laundry		
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<b>Brought Forward</b>			R
	<p><u>Supply &amp; install Split type Indoor &amp; Outdoor Units complete with all necessary insulated plenum box ducting for hide away units and canvass collars on (rectangular supply ducting), anti-vibration mountings, wired remote controllers, filter on unit intakes with bottom access hatches, fittings, fixings and accessories as scheduled and specified.</u></p>		
95	4.5kW (MW 1)	No	1
	<b><u>REFRIGERATION PIPING</u></b>		
	<p><u>Supply and installation of refrigeration piping complete with support brackets, insulation, all exposed refrigeration pipes must be enclosed in sheet metal trunking. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u></p>		
96	Indoor AC Units	m	15
	<b><u>CONDENSATE DRAIN PIPING</u></b>		
	<p><u>Supply and installation of condensate drain piping complete with hanger rods, and must be PVC pipes, with all required 75mm p-traps and required accessories. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u></p>		
97	Indoor AC Units	m	18
	<b><u>CORROSION PROTECTION</u></b>		
	<p><u>Corrosion protection of the outdoor condensing unit coils, base plates, stainless steel replacement screws, frames complete with high pressure hose wash down &amp; combing of fins prior to application. Note Bluchem corrosion protection or equal and approved</u></p>		
98	Out door AC unit	No	1
	<b>Carried Forward</b>		R
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		Brought Forward		R
	<b><u>CONTROLLERS</u></b>			
99	complete with labels outdoor unit	No	1	
	<b><u>FIRE PROTECTION</u></b>			
	<b><u>FIRE DETECTION</u></b>			
	<b><u>Fire Detection system installation work as per relevant SANS 10139, SANS 246, SANS 322 and project specifications. All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings &amp; painting. All rates are to include all necessary scaffolding, transport and affiliated costs. All signals to be connected to addressable fire control panel. Installation of conduits done by others.</u></b>			
100	Supply and install fire control panel	No	1	
101	Supply and install break glass units c/w Translucent flip cover	No	2	
102	Supply and install sounder complete with strobe	No	3	
103	Supply and install optical smoke detectors	No	16	
104	Supply and install PH30 cable for the entire fire detection system	m	200	
105	Supply and install conduit for the entire fire detection	m	100	
106	Interfacing fire detection system with the HVAC system		Item	
107	Approval of the system by the Fire System Inspection Bureau		Item	
108	Testing, Commissioning and approval of the entire detection system		Item	
109	Operation & Maintenance Manuals ( soft copy and hard copies) c/w as built drawing		Item	
		<b>Carried Forward</b>		R
		Section No. 9 Bill No. 6 Main Laundry		
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		Brought Forward		R
110	Log book & Zone diagram		Item	
<b><u>FIRE SUPPRESSION EQUIPMENT</u></b>				
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>				
<u>Fire Hose Reel</u> <u>Supply and install Fire Hose Reel, complete with drum, wall mounted bracket, hose, pressure gauge, stop valve, durable nozzle, fitting and fixing as per technical specification</u>				
111	25mm diameter and 30m long hose	No	2	
<b><u>Fire Extinguisher</u></b>				
<u>Supply and Install Fire Extinguishers, complete with 25mm thick timber backboards with hook brackets and all fixing as per technical specifications.</u>				
112	4.5kg DCP Fire Extinguisher	No	4	
<b><u>FIRE WATER RETICULATION</u></b>				
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>				
<u>Supply and Install HDPE pipes laid in ground including backfilling and compating of trenches</u>				
113	32mm Pipes laid in and including excavation not exceeding 1m deep	m	10	
<u>Supply and Install Galvanised Mild Steel pipe above ground</u>				
114	25mm diameter pipe	m	22	
		<b>Carried Forward</b>		R
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		Brought Forward		R
		<u>Extra over HDPE pipe for common fittings, bends, tees, reducers as per Specification.</u>		
115	32mm -25mm-Reducer	No	3	
116	32mm -32mm-Elbow	No	3	
		<u>Extra over GMS pipe for common fittings, bends, tees, reducers as per Specification.</u>		
117	25mm - 25mm -Elbow	No	9	
<b><u>STATUTORY EMERGENCY AND FIRE EQUIPMENT SIGNAGE</u></b>				
<u>Supply and install Photoluminescent Statutory Emergency and Fire Equipment Signage, complete with anodised aluminium frames, hooks, chains and all mechanical screw fixing as per technical specifications</u>				
118	F4 Flat (190mm modules)	No	2	
119	F31 Flat (190mm modules)	No	2	
120	E6, Self illuminated exit sign complete with own back up battery	No	2	
<b>Carried Forward to Summary of Section No. 9</b>				R
Section No. 9				
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<b>Brought Forward</b>				R
8	26mm diameter pipes	m	55	
9	32mm diameter pipes	m	10	
<b><u>Extra over Multilayer Mepla piping fittings:</u></b>				
<u>T-Pieces</u>				
10	20mm diameter T-piece	No	3	
11	26mm diameter T-piece	No	6	
12	32mm diameter T-piece	No	5	
13	40mm diameter T-piece	No	5	
<u>Elbows</u>				
14	20 diameter elbow	No	35	
15	26 diameter elbow	No	15	
16	32 diameter elbow	No	6	
17	40 diameter elbow	No	6	
<u>Reducers</u>				
18	26mm diameter to 20mm diameter reducer	No	10	
19	32mm diameter to 20mm diameter reducer	No	2	
20	32mm diameter to 26mm diameter reducer	No	6	
21	40mm diameter to 20mm diameter reducer	No	4	
22	40mm diameter to 26mm diameter reducer	No	4	
23	40mm diameter to 32mm diameter reducer	No	4	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 7 Main Pharmacy				
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<b>Brought Forward</b>			R
<u>Supply and installation of Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, and all required accessories</u>			
31	300x300	m	8
32	300x200	m	7
33	200x200	m	15
<b><u>ELECTRICAL CONNECTION</u></b>			
<u>Final connection of Ventilation fans complete with all required accessories to isolators provided by electrician</u>			
34	Extract Fan	No	1
<b><u>DUCT FITTINGS</u></b>			
<b><u>dimensions are in mm</u></b>			
35	400x400 to 250ø - Transformation piece	No	1
36	250ø to 300x300 - Transformation piece	No	1
37	300x300 to 200x200 - Transformation piece	No	1
38	300x200 Bend	No	1
39	200x200 Bend	No	1
40	150ø Spigot	No	9
41	200x200 End Cap	No	1
42	300x200 End Cap	No	1
<b><u>WEATHER LOUVRES</u></b>			
<b>Carried Forward</b>			R
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<b>Brought Forward</b>				R
<u>Supply and installation of Weather Louvers with all accessories, AME or equal and approved</u>				
43	(WL1) Fresh Aire - 600x 400	No	1	
44	(WL 2) Fresh air louvre - 700x 400	No	1	
45	(WL3) Fresh Aire - 400x 400	No	1	
<b><u>AIR GRILLES</u></b>				
<u>Supply and installation of curved blade supply air grilles complete with all necessary fittings, fixings and accessories and colour coded to suit architects preference</u>				
46	Door Grille - 300x200	No	2	
47	Return air Grille - 600x600	No	12	
<b><u>DIFFUSERS</u></b>				
<u>Supply and install Air outlets (Extract air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>				
48	150ø Diffuser ( EAD )	No	7	
<b><u>AC INDOOR UNITS</u></b>				
<u>Supply &amp; install Split type Indoor &amp; Outdoor Units complete with all necessary insulated plenum box ducting for hide away units and canvass collars on (rectangular supply ducting), anti-vibration mountings, wired remote controllers, filter on unit intakes with bottom access hatches, fittings, fixings and accessories as scheduled and specified.</u>				
49	18 kW (HAU 1)	No	1	
50	22.4 kW (HAU 2)	No	1	
<b>Carried Forward</b>				R
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Brought Forward			R
<b><u>REFRIGERATION PIPING</u></b>			
<u>Supply and installation of refrigeration piping complete with support brackets, insulation, all exposed refrigeration pipes must be enclosed in sheet metal trunking. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>			
51	Indoor AC Units	m	42
<b><u>CONDENSATE DRAIN PIPING</u></b>			
<u>Supply and installation of condensate drain piping complete with hanger rods, and must be PVC pipes, with all required 75mm p-traps and required accessories. Note the contractors to measure as per the layouts indicated on the drawings and with the sizes confirmed by the suppliers</u>			
52	Indoor AC Units	m	40
<b><u>CORROSION PROTECTION</u></b>			
<u>Corrosion protection of the outdoor condensing unit coils, base plates, stainless steel replacement screws, frames complete with high pressure hose wash down &amp; combing of fins prior to application. Note Bluchem corrosion protection or equal and approved</u>			
53	Out door AC unit	No	2
<b><u>CONTROLLERS</u></b>			
<u>complete with labels</u>			
54	HAU 1	No	1
55	HAU 2	No	1
<b><u>DIFFUSERS</u></b>			
Carried Forward			R
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<b>Brought Forward</b>			R
	<u>Supply and install Air outlets (supply air diffusers) complete with spigot with all necessary Fittings, fixings and accessories as scheduled and specified.</u>		
56	200ø Diffuser ( SAD)	No	20
	<b><u>SHEET METAL DUCTING</u></b>		
	<u>Supply and installation of externally insulated Rectangular galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, 50mm sonic liner, and all required accessories. Ducting to be wrapped with 25mm duct insulation with 5 layers of fibreglass chop strand and resin over to match the external of the building, equally or similarly approved.</u>		
57	600x400	m	26
58	600x300	m	20
59	400x300	m	18
60	300x300	m	35
	<b><u>SHEET METAL DUCTING</u></b>		
	<u>Supply and installation of externally insulated round galvanised sheet metal ducting complete with hanger rods and support brackets, canvass collars, 50mm sonic liner, and all required accessories. Ducting to be wrapped with 25mm duct insulation with 5 layers of fibreglass chop strand and resin over to match the external of the building, equally or similarly approved.</u>		
61	200ø	m	30
	<b><u>FLEXIBLE DUCTING</u></b>		
	<u>Supply and installation of flexible ducting complete with clamps on both sides and all required accessories.</u>		
62	200ø	m	25
	<b>Carried Forward</b>		R
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Brought Forward				R
<b><u>DUCT FITTINGS</u></b>				
<b><u>dimensions are in mm</u></b>				
63	600 x 400 to 400 x 300 - Transformation piece	No	1	
64	600 x 300 to 300 x 300 - Transformation piece	No	1	
65	300x300 Shoe piece	No	1	
66	200ø Shoe piece	No	20	
67	600x400 Elbow	No	1	
68	600x300 Elbow	No	1	
69	300 x 300 Elbow	No	1	
70	300 x 300 End Cap	No	2	
71	400 x 300 End Cap	No	1	
<b><u>FIRE PROTECTION</u></b>				
<b><u>FIRE DETECTION</u></b>				
<b><u>Fire Detection system installation work as per relevant SANS 10139, SANS 246, SANS 322 and project specifications. All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary, fittings, fixings &amp; painting. All rates are to include all necessary scaffolding, transport and affiliated costs. All signals to be connected to addressable fire control panel. Installation of conduits done by others.</u></b>				
72	Supply and install fire control panel	No	1	
73	Supply and install break glass units c/w Translucent flip cover	No	2	
74	Supply and install sounder complete with strobe	No	3	
<b>Carried Forward</b>				R
Section No. 9 Bill No. 7 Main Pharmacy				
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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			R
75	Supply and install optical smoke detectors	No	25
76	Supply and install PH30 cable for the entire fire detection system	m	700
77	Supply and install conduit for the entire fire detection	m	350
78	Interfacing fire detection system with the HVAC system		Item
79	Approval of the system by the Fire System Inspection Bureau		Item
80	Testing, Commissioning and approval of the entire detection system		Item
81	Operation & Maintenance Manuals ( soft copy and hard copies) c/w as built drawing		Item
82	Log book & Zone diagram		Item
<b><u>FIRE SUPPRESSION EQUIPMENT</u></b>			
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>			
<b><u>Fire Hose Reel</u></b>			
<u>Supply and install Fire Hose Reel, complete with drum, wall mounted bracket, hose, pressure gauge, stop valve, durable nozzle, fitting and fixing as per technical specification</u>			
83	25mm diameter and 30m long hose	No	1
<b><u>Fire Extinguisher</u></b>			
<b>Carried Forward</b>			R
Section No. 9 Bill No. 7 Main Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
	<u>Supply and Install Fire Extinguishers, complete with 25mm thick timber backboards with hook brackets and all fixing as per technical specifications.</u>		
84	4.5kg DCP Fire Extinguisher	No	3
<b><u>FIRE WATER RETICULATION</u></b>			
<b><u>All rates are to include all necessary fabrication and installation costs. Unless specifically stated the description of pipes shall be deemed to include all necessary fittings, fixings and painting.</u></b>			
<u>Supply and Install HDPE pipes laid in ground including backfilling and compating of trenches</u>			
85	32mm Pipes laid in and including excavation not exceeding 1m deep	m	3
<u>Supply and Install Galvanised Mild Steel pipe above ground</u>			
86	25mm diameter pipe	m	31
<u>Extra over HDPE pipe for common fittings, bends, tees, reducers as per Specification.</u>			
87	32mm -25mm-Reducer	No	2
88	32mm -32mm-Elbow	No	2
<u>Extra over GMS pipe for common fittings, bends, tees, reducers as per Specification.</u>			
89	25mm - 25mm -Elbow	No	8
<b><u>STATUTORY EMERGENCY AND FIRE EQUIPMENT SIGNAGE</u></b>			
<b>Carried Forward</b>			R
Section No. 9 Bill No. 7 Main Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
	<u>Supply and install Photoluminescent Statutory            Emergency and Fire Equipment Signage, complete with            anodised aluminium frames, hooks, chains and all            mechanical screw fixing as per technical specifications</u>			
90	E1 Flat (190mm modules)	No	3	
91	E2 Flat (190mm modules)	No	3	
92	E3 Flat (190mm modules)	No	6	
93	F4 Flat (190mm modules)	No	1	
94	F5 Flat (190mm modules)	No	1	
95	F6 Flat (190mm modules)	No	1	
96	F13 Flat (190mm modules)	No	1	
97	F31 Flat (190mm modules)	No	2	
98	E6, Self illuminated exit sign complete with own back up battery	No	3	
<b>Carried Forward to Summary of Section No. 9</b>				R
Section No. 9 Bill No. 7 Main Pharmacy				
<b>Project Code: ZNB 5579/2021-H</b>				

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**SECTION SUMMARY - SECTION 10 - MECHANICAL WORKS**

Bill No		Page No	Amount
1	Preliminaries and General	405	
2	Paeds & OPD	422	
3	Mortuary	432	
4	Bulk Pharmacy	440	
5	Outsource Laundry	450	
6	Main Laundry	462	
7	Main Pharmacy	473	
<b>Carried to Final Summary</b> Section No. 9			R
<b>Project Code: ZNB 5579/2021-H</b>			



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<b>Brought Forward</b>			R
7	Magnetic Lock 544 KG Holding Force	No	4
8	Emergency Door Release Call Point (Breaker Glass)	No	4
	<u>Cables</u>		
9	Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way & CAT6.	m	210
	<b><u>Ancillary Distribution Boards and Outlets</u></b>		
	<u>Supply and installation of the following metal Ancillary Distribution Boards and coverplates for Data and Telephone outlets. (Conduit and Conduit boxes given elsewhere).</u>		
10	Telephone Distribution Board (450mm x 450mm).	No	2
11	Data Distribution Board (450mm x 450mm)	No	2
12	Data, Telephone and Ancillary Coverplates	No	29
	<b><u>Cables</u></b>		
	<u>Supply, delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts.</u>		
	<b><u>Refer to SLD.</u></b>		
13	16mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	20
14	25mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	25
15	35mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	22
16	120mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	300
	<b>Carried Forward</b>		R
	Section No. 10 Bill No. 1 Paeds & OPD		
	<b>Project Code: ZNB 5579/2021-H</b>		

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Brought Forward				R
<b><u>Cable Terminations</u></b>				
<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u>				
<b><u>Refer to SLD.</u></b>				
17	16mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	30	
18	25mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	10	
19	35mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	20	
20	120mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	20	
<b><u>Cable Sleeves</u></b>				
<u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u>				
21	110mm Ø Flexible Cable Sleeve	m	20	
<u>EXTRA ON upvc piping for:</u>				
22	100mm Diameter long radius bend	m <sup>3</sup>	20	
<b><u>Conduit</u></b>				
<u>Supply and installation of PVC conduit. Lengths given shall be taken as measured horizontal and vertical runs between conduit terminations. Rates quoted shall allow for wastage, offcuts, couplings, cuttings, bending, jointing socket and tees.</u>				
23	25mm Conduit	m	6 000	
<b>Carried Forward</b>				R
Section No. 10 Bill No. 1 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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				Brought Forward		R
24	25mm sprague connectors	m	300			
				<b><u>Conduit Boxes and Ends</u></b>		
				<u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. (excluding coverplates), including holes for conduit.</u>		
25	25mm Conduit (75mm Ø) Round Box	No	259			
26	25mm Conduit (50 x 100mm) Galvanized Box	No	44			
27	25mm Conduit (100 x 100mm) Galvanized Box	No	233			
				<b><u>Conduit Ends</u></b>		
				<u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u>		
28	25mm uPVC Conduit	No	350			
				<b><u>Conductors</u></b>		
				<u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u>		
29	2,5 mm <sup>2</sup> PVC Conductors Red	m	730			
30	2,5 mm <sup>2</sup> PVC Conductors Black	m	800			
31	2,5 mm <sup>2</sup> PVC Conductors Blue	m	760			
32	2,5 mm <sup>2</sup> PVC Conductors Earth	m	800			
33	4 x 2 PVC Wall Box	No	44			
				<b>Carried Forward</b>		R
				Section No. 10 Bill No. 1 Paeds & OPD		
				<b>Project Code: ZNB 5579/2021-H</b>		

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		Brought Forward		R
34	Hospital Saddle	No	80	
35	4-Way Box PVC	No	44	
36	4 mm <sup>2</sup> PVC Conductors Red	m	2 012	
37	4 mm <sup>2</sup> PVC Conductors Black	m	2 012	
38	4 mm <sup>2</sup> PVC Conductors Earth	m	2 012	
39	Adaptors 25mm	No	100	
40	4 x 4 PVC Wall Box	No	232	
41	Coupling 25mm	No	100	
42	6mm <sup>2</sup> Cable	m	150	
<b><u>Light Switches</u></b>				
<u>Supply, fitting and electrical connection of a Legrand type flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>				
43	16A 1 Lever 1 Way	No	40	
44	16A 2 Lever 1 Way	No	4	
<b><u>Luminaries</u></b>				
<u>Mounting, fixing and electrically connecting the following luminaries, complete with lamps as specified in Section E of the Detailed Specification.</u>				
Type A1				
		<b>Carried Forward</b>		R
		Section No. 10 Bill No. 1 Paeds & OPD		
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>			R
45	Fluorescent recessed cans with full plastic cover and secure fasteners. Fluorescent fitting T8 2x58w with prismatic diffuser with emergency light. With 5 year warranty.	No	3
	Type B1		
46	1200x600 LED Backlit Panel, 3x36w 5500lm, 4000K, Flicker Free, non dimmable includes 3m 5 amp cordset. With 5 year warranty.	No	99
	Type C1		
47	12w high performance non-dimmable downlight, 4000K, 1320lm, 110lm/w, IP44 with 5 year warranty.	No	111
	Type C1.1		
48	5w LED dimmable downlight unit with 5 year warranty.	No	8
	Type J1		
49	20w LED Bulkhead, 30 die cast Aluminium base and Black ring trim, 2000lm. With 5 year warranty.	No	30
	Type T1		
50	12x3w Treatment RM examination light, with 45 year warranty.	No	8
	<b><u>Daylight Switch</u></b>		
	<u>Supply and installation of approved daylight switch.</u>		
51	Daylight Switch	No	2
52	Elbows Internal/External	No	50
<b>Carried Forward</b>			R
Section No. 10 Bill No. 1 Paeds & OPD			
<b>Project Code: ZNB 5579/2021-H</b>			

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			<b>Brought Forward</b>		R
53	End Caps	No	50		
54	Cover Joiner Clips	No	50		
55	16A SSO's c/w cover on Powerskirting	No	112		
<b><u>Socket Outlets</u></b>					
<u>Supply, fitting and electrical connection of flush or surface mounted Legrand type switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u>					
56	5A Single SSO c/w coverplate.Legrand type.	No	4		
57	16A Single SSO c/w coverplate.Legrand type.	No	72		
58	16A Double SSO c/w coverplate.Legrand type.	No	36		
59	16A Dedicated Double SSO c/w coverplate.Legrand type.	No	57		
60	16A UPS/Essential SSO c/w coverplate.Legrand type.	No	68		
61	Bedhead Trunking with 3xSingle SSO (Essential/UPS), 2x Single SSO (Normal) and Medical Gas Outlets	m	16		
62	High Care Bedhead Trunking with 8xSingle SSO (Essential/UPS), 8x Single SSO (Dedicated) and 3 Oxygen, 2xVacuum and 3x Low Presure Medical Gas Outlets	m	8		
63	Powerskirting	m	60		
<b><u>Wireway Installation</u></b>					
64	228mm Wide Medium Duty Galvanized Return Flange Cable Tray. Mounted Underside of Ceiling Complete with all Accessories. Covers, 90° Bends, T-Junctions and rnd Caps etc.	m	210		
			<b>Carried Forward</b>		R
			Section No. 10 Bill No. 1 Paeds & OPD		
<b>Project Code: ZNB 5579/2021-H</b>					

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<b>Brought Forward</b>			R
65	RJ11 Connector with cradle/ cover and mod blank	m	20
66	RJ45 Connector with cradle/ cover mod blank	m	20
67	RJ45 Connector with cradle/ cover mod blank	m	20
<b><u>Isolators</u></b>			
<u>Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate. For more details please refer to the specific drawings</u>			
68	20A Single pole Isolator switch (ODU-01-ODU-07) for HVAC	No	7
69	5A Single pole Isolator switch (HAU-01-HAU-07) for HVAC	No	7
70	10A Single Pole Isolator FAN Equipment (EAF-1-EAF-2)	No	1
71	30A Double Isolator switch for Heat Pump (HP)	No	1
72	32A Double-Pole waterproof Isolator for Handdryer (Iso2)	No	3
73	20A Double Isolator switch for Circulating Pump (CP)	No	1
<b><u>Electrical connection of appliances and installations.</u></b>			
74	Plant (Internal/External Units): Single and three phase connection	No	21
<b><u>TELEPHONE INSTALLATION</u></b>			
<b>Carried Forward</b>			R
Section No. 10 Bill No. 1 Paeds & OPD			
<b>Project Code: ZNB 5579/2021-H</b>			

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Brought Forward				R
<b><u>Supply and installation of the following items for the Telephone Installation</u></b>				
75	25mm PVC Conduit	m	100	
76	25mm PVC Conduit end	No	100	
77	25mm PVC Conduit box	No	25	
<b><u>DATA INSTALLATION</u></b>				
<b><u>Supply and installation of the following items for the Data installation</u></b>				
78	25mm PVC Conduit	m	100	
79	25mm PVC Conduit end	No	100	
80	25mm PVC Conduit box	No	25	
<b><u>Nurse Call System</u></b>				
<u>Supply and installation of approved Nurse Call System.</u>				
<b><u>Special note, the accessories are inclusive on the quoted price</u></b>				
81	Nurse call Panel	No	1	
82	Nurse call Push Button	No	10	
83	Emergency call Push Button	No	10	
84	Nurse call Light	No	10	
85	PA System	No	1	
<b>Carried Forward</b>				R
Section No. 10 Bill No. 1 Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
86	Microphone	No	1	
87	DPSPPA DSP124 Round 6.5 Inch Ceiling Speaker. Loud Speaker for PA System	No	6	
88	Nurse call Pull Cord	No	1	
<b><u>Cables</u></b>				
89	Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way & CAT5.	m	170	
<b>Carried Forward to Summary of Section No. 10</b>				R
Section No. 10				
Bill No. 1				
Paeds & OPD				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 11 - ELECTRICAL WORKS</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>MORTUARY</u></b>			
	<b><u>Distribution Boards</u></b>			
	<u>Supply, installation and commissioning of Kiosk, Distribution Boards, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price, Refer to SLD.</u></b>			
1	DB-M	No	1	
	<b><u>Security System</u></b>			
	<u>Installation of Camera System equipment and All Access Control Systems.</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price.</u></b>			
2	360 Degree resolution CCTV Camera	No	9	
	<u>Cables</u>			
3	Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way & CAT6.	m	80	
	<b><u>Ancillary Distribution Boards and Outlets</u></b>			
	<b>Carried Forward</b>			
	Section No. 10			
	Bill No. 2			
	Mortuary			
	Project Code: ZNB 5579/2021-H			
			R	

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<b>Brought Forward</b>			R
<p><u>Supply and installation of the following metal Ancillary Distribution Boards and coverplates for Data and Telephone outlets. (Conduit and Conduit boxes given elsewhere).</u></p>			
4	Telephone Distribution Board (450mm x 450mm).	No	1
5	Data Distribution Board (450mm x 450mm)	No	1
6	Data, Telephone and Ancillary Coverplates	No	9
<b><u>Cables</u></b>			
<p><u>Supply, delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts.</u></p>			
7	16mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	40
<b><u>Cable Terminations</u></b>			
<p><u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u></p>			
8	16mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	10
<b><u>Cable Sleeves</u></b>			
<p><u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u></p>			
9	110mm Ø Flexible Cable Sleeve	m	15
<b>Carried Forward</b>			R
Section No. 10 Bill No. 2 Mortuary			
<b>Project Code: ZNB 5579/2021-H</b>			

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			<b>Brought Forward</b>		R
10	EXTRA ON upvc piping for: 100mm Diameter long radius bend	m3	15		
	<b><u>Conduit</u></b>				
	<u>Supply and installation of PVC conduit. Lengths given shall be taken as measured horizontal and vertical runs between conduit terminations. Rates quoted shall allow for wastage, offcuts, couplings, cuttings, bending, jointing socket and tees.</u>				
11	25mm Conduit	m	1 200		
12	25mm sprague connectors	m	60		
	<b><u>Conduit Boxes and Ends</u></b>				
	<u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. (excluding coverplates), including holes for conduit.</u>				
13	25mm Conduit (75mm Ø) Round Box	No	85		
14	25mm Conduit (50 × 100mm) Galvanized Box	No	27		
15	25mm Conduit (100 x 100mm) Galvanized Box	No	50		
	<b><u>Conduit Ends</u></b>				
	<u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u>				
16	25mm uPVC Conduit	No	150		
	<b><u>Conductors</u></b>				
			<b>Carried Forward</b>		R
			Section No. 10 Bill No. 2 Mortuary		
<b>Project Code: ZNB 5579/2021-H</b>					

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<b>Brought Forward</b>				R
<u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u>				
17	2,5 mm <sup>2</sup> PVC Conductors Red	m	200	
18	2,5 mm <sup>2</sup> PVC Conductors Black	m	330	
19	2,5 mm <sup>2</sup> PVC Conductors Blue	m	280	
20	2,5 mm <sup>2</sup> PVC Conductors Earth	m	330	
21	4 x 2 PVC Wall Box	No	27	
22	Hospital Saddle	No	20	
23	4-Way Box PVC	No	20	
24	4 mm <sup>2</sup> PVC Conductors Red	m	300	
25	4 mm <sup>2</sup> PVC Conductors Black	m	300	
26	4 mm <sup>2</sup> PVC Conductors Earth	m	300	
27	Adaptors 25mm	No	25	
28	4 x 4 PVC Wall Box	No	50	
29	Coupling 25mm	No	25	
30	6mm <sup>2</sup> Cable	m	25	
<b><u>Light Switches</u></b>				
<u>Supply, fitting and electrical connection of a Legrand type flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>				
31	16A 1 Lever 1 Way	No	20	
<b>Carried Forward</b>				R
Section No. 10 Bill No. 2 Mortuary				
<b>Project Code: ZNB 5579/2021-H</b>				

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		Brought Forward		R
32	16A 2 Lever 1 Way	No	7	
	<b><u>Luminaries</u></b>			
	<u>Mounting, fixing and electrically connecting the following luminaries, complete with lamps as specified in Section E of the Detailed Specification.</u>			
	Type A1			
33	Fluorescent recessed cans with full plastic cover and secure fasteners. Fluorescent fitting T8 2x58w with prismatic diffuser with emergency light. With 5 year warranty.	No	17	
	Type B1			
34	1200x600 LED Backlit Panel, 3x36w 5500lm, 4000K, Flicker Free, non dimmable includes 3m 5 amp cordset. With 5 year warranty.	No	27	
	Type C1			
35	12w high performance non-dimmable downlight, 4000K, 1320lm, 110lm/w, IP44 with 5 year warranty.	No	28	
	Type J1			
36	20w LED Bulkhead, 30 die cast Aluminium base and Black ring trim, 2000lm. With 5 year warranty.	No	13	
	<b><u>Daylight Switch</u></b>			
	<u>Supply and installation of approved daylight switch.</u>			
37	Daylight Switch	No	1	
	<b>Carried Forward</b>			R
	Section No. 10 Bill No. 2 Mortuary			
	<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
38	Elbows Internal/External	No	50	
39	End Caps	No	50	
40	Cover Joiner Clips	No	50	
41	16A SSO's c/w cover on Powerskirting	No	12	
		<b><u>Socket Outlets</u></b>		
		<u>Supply, fitting and electrical connection of flush or surface mounted Legrand type switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u>		
42	5A Single SSO c/w coverplate.Legrand type.	No	2	
43	16A Single SSO c/w coverplate.Legrand type.	No	6	
44	16A Double SSO c/w coverplate.Legrand type.	No	44	
45	Powerskirting	m	20	
		<b><u>Wireway Installation</u></b>		
46	228mm Wide Medium Duty Galvanized Return Flange Cable Tray. Mounted Underside of Ceiling Complete with all Accessories. Covers, 90° Bends, T-Junctions and rnd Caps etc.	m	80	
47	RJ11 Connector with cradle/ cover and mod blank	m	20	
48	RJ45 Connector with cradle/ cover mod blank	m	20	
49	RJ45 Connector with cradle/ cover mod blank	m	20	
		<b><u>Isolators</u></b>		
		<b>Carried Forward</b>		R
		Section No. 10 Bill No. 2 Mortuary		
		<b>Project Code: ZNB 5579/2021-H</b>		

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<b>Brought Forward</b>			R
	<u>Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate. For more details please refer to the specific drawings</u>		
50	20A Single pole Isolator switch (ODU-01-ODU-07) for HVAC	No	2
51	5A Single pole Isolator switch (HAU-01-HAU-07) for HVAC	No	1
52	10A Single Pole Isolator FAN Equipment (EAF-1-EAF-2)	No	2
53	20A Double Isolator switch for Mid wall Unit (MW1)	No	1
54	30A Three Phase Isolator switch for Heat Pump (HP)	No	1
	<b><u>Electrical connection of appliances and installations.</u></b>		
55	Plant (Internal/External Units): Single and three phase connection	No	7
	<b><u>TELEPHONE INSTALLATION</u></b>		
	<b><u>Supply and installation of the following items for the Telephone Installation</u></b>		
56	25mm PVC Conduit	m	20
57	25mm PVC Conduit end	No	15
58	25mm PVC Conduit box	No	15
	<b>Carried Forward</b>		R
	Section No. 10 Bill No. 2 Mortuary		
	<b>Project Code: ZNB 5579/2021-H</b>		



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Item No		Quantity	Rate	Amount
	<b><u>SECTION 11 - ELECTRICAL WORKS</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>BULK PHARMACY</u></b>			
	<b><u>ELECTRICAL INSTALLATION</u></b>			
	<b><u>Distribution Boards</u></b>			
	<u>Supply, installation and commissioning of Kiosk, Distribution Boards, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price, Refer to SLD.</u></b>			
1	DB-BG	No	1	
	<b><u>Security System</u></b>			
	<u>Supply, installation of Camera System equipment and All Access Control Systems.</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price.</u></b>			
2	360 Degree resolution CCTV Camera	No	10	
	<u>Cables</u>			
3	Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way & CAT6.	m	20	
	<b>Carried Forward</b>			
	Section No. 10			
	Bill No. 3			
	Bulk Pharmacy			
	<b>Project Code: ZNB 5579/2021-H</b>			
				R

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
<b><u>Cables</u></b>			
<u>Supply, delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts.</u>			
4	16mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	70
<b><u>Cable Terminations</u></b>			
<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u>			
5	16mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	10
<b><u>Cable Sleeves</u></b>			
<u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u>			
6	110mm Ø Flexible Cable Sleeve	m	15
<u>EXTRA ON upvc piping for:</u>			
7	100mm Diameter long radius bend	m <sup>3</sup>	15
<b><u>Conduit</u></b>			
<b>Carried Forward</b>			R
Section No. 10 Bill No. 3 Bulk Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>				R
<u>Supply and installation of PVC conduit. Lengths given shall be taken as measured horizontal and vertical runs between conduit terminations. Rates quoted shall allow for wastage, offcuts, couplings, cuttings, bending, jointing socket and tees.</u>				
8	25mm Conduit	m	750	
9	25mm sprague connectors	m	38	
<b><u>Conduit Boxes and Ends</u></b>				
<u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. (excluding coverplates), including holes for conduit.</u>				
10	25mm Conduit (75mm Ø) Round Box	No	22	
11	25mm Conduit (50 × 100mm) Galvanized Box	No	4	
12	25mm Conduit (100 x 100mm) Galvanized Box	No	15	
<b><u>Conduit Ends</u></b>				
<u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u>				
13	25mm uPVC Conduit	No	50	
<b><u>Conductors</u></b>				
<u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u>				
14	2,5 mm <sup>2</sup> PVC Conductors Red	m	100	
<b>Carried Forward</b>				R
Section No. 10 Bill No. 3 Bulk Pharmacy				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>				R
15	2,5 mm <sup>2</sup> PVC Conductors Black	m	400	
16	2,5 mm <sup>2</sup> PVC Conductors Blue	m	350	
17	2,5 mm <sup>2</sup> PVC Conductors Earth	m	400	
18	4 x 2 PVC Wall Box	No	4	
19	Hospital Saddle	No	20	
20	4-Way Box PVC	No	15	
21	4 mm <sup>2</sup> PVC Conductors Red	m	200	
22	4 mm <sup>2</sup> PVC Conductors Black	m	200	
23	4 mm <sup>2</sup> PVC Conductors Earth	m	200	
24	Adaptors 25mm	No	50	
25	4 x 4 PVC Wall Box	No	15	
26	Coupling 25mm	No	20	
27	6mm <sup>2</sup> Cable	m	16	
<b><u>Light Switches</u></b>				
<u>Supply, fitting and electrical connection of a Legrand type flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>				
28	16A 1 Lever 1 Way	No	3	
29	16A 2 Lever 1 Way	No	1	
<b><u>Luminaries</u></b>				
<b>Carried Forward</b>				R
Section No. 10 Bill No. 3 Bulk Pharmacy				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>			R
	<u>Mounting, fixing and electrically connecting the following luminaries, complete with lamps as specified in Section E of the Detailed Specification.</u>		
	Type A1		
30	Fluorescent recessed cans with full plastic cover and secure fasteners. Fluorescent fitting T8 2x58w with prismatic diffuser with emergency light. With 5 year warranty.	No	22
	Type J1		
31	20w LED Bulkhead, 30 die cast Aluminium base and Black ring trim, 2000lm. With 5 year warranty.	No	8
	<b><u>Daylight Switch</u></b>		
	<u>Supply and installation of approved daylight switch.</u>		
32	Daylight Switch	No	1
	<b><u>Socket Outlets</u></b>		
	<u>Supply, fitting and electrical connection of flush or surface mounted Legrand type switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u>		
33	16A Single SSO c/w coverplate.Legrand type.	No	1
34	16A Double SSO c/w coverplate.Legrand type.	No	14
	<b>Carried Forward</b>		R
	Section No. 10 Bill No. 3 Bulk Pharmacy		
	<b>Project Code: ZNB 5579/2021-H</b>		

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		Brought Forward		R
	<u>Wireway Installation</u>			
35	228mm Wide Medium Duty Galvanized Return Flange Cable Tray. Mounted Underside of Ceiling Complete with all Accessories. Covers, 90° Bends, T-Junctions and rnd Caps etc.	m	20	
	<b><u>Isolators</u></b>			
	<u>Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate. For more details please refer to the specific drawings</u>			
36	20A Single pole Isolator switch (ODU-01-ODU-07) for HVAC	No	2	
37	5A Single pole Isolator switch (HAU-01-HAU-07) for HVAC	No	2	
38	10A Single Pole Islator FAN Equipment (EAF-1-EAF-2)	No	1	
39	30A Three Phase Isolator Switch for cold room, Freezer, Pump Room & washing machines (CRU-01 & FRU-01)	No	2	
	<b><u>Electrical connection of appliances and installations.</u></b>			
40	Plant (Internal/External Units): Single and three phase connection	No	7	
<b>Carried Forward to Summary of Section No. 10</b>				R
Section No. 10				
Bill No. 3				
Bulk Pharmacy				
<b>Project Code: ZNB 5579/2021-H</b>				



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<b>Brought Forward</b>			R
<p><u>Supply and installation of the following metal Ancillary Distribution Boards and coverplates for Data and Telephone outlets.</u></p> <p><b><u>(Conduit and Conduit boxes given elsewhere).</u></b></p>			
5	Telephone Distribution Board (450mm x 450mm).	No	1
6	Data Distribution Board (450mm x 450mm)	No	1
7	Data, Telephone and Ancillary Coverplates	No	4
<p><b><u>Cables</u></b></p> <p><u>Supply, delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts.</u></p>			
8	70mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	150
<p><b><u>Cable Terminations</u></b></p> <p><u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u></p>			
9	70mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	10
<p><b><u>Cable Sleeves</u></b></p> <p><u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u></p>			
10	110mm Ø Flexible Cable Sleeve	m	15
<b>Carried Forward</b>			R
Section No. 10 Bill No. 4 Outsource Laundry			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
	<u>EXTRA ON upvc piping for:</u>		
11	100mm Diameter long radius bend	m3	15
	<b><u>Conduit</u></b>		
	<u>Supply and installation of PVC conduit. Lengths given shall be taken as measured horizontal and vertical runs between conduit terminations. Rates quoted shall allow for wastage, offcuts, couplings, cuttings, bending, jointing socket and tees.</u>		
12	25mm Conduit	m	1 475
13	25mm sprague connectors	m	74
	<b><u>Conduit Boxes and Ends</u></b>		
	<u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. (excluding coverplates), including holes for conduit.</u>		
14	25mm Conduit (75mm Ø) Round Box	No	56
15	25mm Conduit (50 × 100mm) Galvanized Box	No	25
16	25mm Conduit (100 x 100mm) Galvanized Box	No	41
	<b><u>Conduit Ends</u></b>		
	<u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u>		
17	25mm uPVC Conduit	No	150
	<b><u>Conductors</u></b>		
	<b>Carried Forward</b>		
	Section No. 10 Bill No. 4 Outsource Laundry		
	<b>Project Code: ZNB 5579/2021-H</b>		
			R

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<b>Brought Forward</b>				R
<u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u>				
18	2,5 mm <sup>2</sup> PVC Conductors Red	m	300	
19	2,5 mm <sup>2</sup> PVC Conductors Black	m	400	
20	2,5 mm <sup>2</sup> PVC Conductors Blue	m	375	
21	2,5 mm <sup>2</sup> PVC Conductors Earth	m	400	
22	4 x 2 PVC Wall Box	No	25	
23	Hospital Saddle	No	25	
24	4-Way Box PVC	No	23	
25	4 mm <sup>2</sup> PVC Conductors Red	m	455	
26	4 mm <sup>2</sup> PVC Conductors Black	m	455	
27	4 mm <sup>2</sup> PVC Conductors Earth	m	455	
28	Adaptors 25mm	No	25	
29	4 x 4 PVC Wall Box	No	41	
30	Coupling 25mm	No	25	
31	6mm <sup>2</sup> Cable	m	43	
<b><u>Light Switches</u></b>				
<u>Supply, install fitting and electrical connection of a Legrand type flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>				
32	16A 1 Lever 1 Way	No	19	
<b>Carried Forward</b>				R
Section No. 10 Bill No. 4 Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

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		<b>Brought Forward</b>		R
33	16A 2 Lever 1 Way	No	6	
	<b><u>Luminaries</u></b>			
	<u>Mounting, fixing and electrically connecting the following luminaires, complete with lamps as specified in Section E of the Detailed Specification.</u>			
	Type A1			
34	Fluorescent recessed cans with full plastic cover and secure fasteners. Fluorescent fitting T8 2x58w with prismatic diffuser with emergency light. With 5 year warranty.	No	41	
	Type J1			
35	20w LED Bulkhead, 30 die cast Aluminium base and Black ring trim, 2000lm. With 5 year warranty.	No	15	
	<b><u>Daylight Switch</u></b>			
	<u>Supply and installation of approved daylight switch.</u>			
36	Daylight Switch	No	1	
37	Elbows Internal/External	No	40	
38	End Caps	No	40	
39	Cover Joiner Clips	No	40	
	<b><u>Socket Outlets</u></b>			
		<b>Carried Forward</b>		R
		Section No. 10		
		Bill No. 4		
		Outsource Laundry		
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>			R
<p><u>Supply, fitting and electrical connection of flush or surface mounted Legrand type switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u></p>			
40	16A Single SSO c/w coverplate.Legrand type.	No	1
41	16A Double SSO c/w coverplate.Legrand type.	No	41
42	Powerskirting	m	10
<p><u>Wireway Installation</u></p>			
43	228mm Wide Medium Duty Galvanized Return Flange Cable Tray. Mounted Underside of Ceiling Complete with all Accessories. Covers, 90° Bends, T-Junctions and rnd Caps etc.	m	100
44	RJ11 Connector with cradle/ cover and mod blank	No	10
45	RJ45 Connector with cradle/ cover mod blank	No	10
46	RJ45 Connector with cradle/ cover mod blank	No	10
<p><b><u>Isolators</u></b></p> <p><u>Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate. For more details please refer to the specific drawings</u></p>			
47	10A Single Pole Islator FAN Equipment (EAF-1-EAF-2)	No	3
48	30A Double Isolator switch for Heat Pump (HP)	No	1
<b>Carried Forward</b>			R
Section No. 10 Bill No. 4 Outsource Laundry			
<p><b>Project Code: ZNB 5579/2021-H</b></p>			

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		Brought Forward		R
<b><u>Electrical connection of appliances and installations.</u></b>				
49	Plant (Internal/External Units): Single and three phase connection	No	4	
<b><u>TELEPHONE INSTALLATION</u></b>				
<b><u>Supply and installation of the following items for the Telephone Installation</u></b>				
50	25mm PVC Conduit	m	10	
51	25mm PVC Conduit end	No	10	
52	25mm PVC Conduit box	No	5	
<b><u>DATA INSTALLATION</u></b>				
<b><u>Supply and installation of the following items for the Data installation</u></b>				
53	25mm PVC Conduit	m	10	
54	25mm PVC Conduit end	No	10	
55	25mm PVC Conduit box	No	5	
<b>Carried Forward to Summary of Section No. 10</b>				R
Section No. 10				
Bill No. 4				
Outsource Laundry				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 11 - ELECTRICAL WORKS</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>MAIN LAUNDRY</u></b>			
	<b><u>Distribution Boards</u></b>			
	<u>Supply, installation and commissioning of Kiosk, Distribution Boards, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price, Refer to SLD.</u></b>			
1	DB-ML	No	1	
	<b><u>Security System</u></b>			
	<u>Supply, installation of Camera System equipment and All Access Control Systems.</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price</u></b>			
2	360 Degree resolution CCTV Camera	No	6	
3	Double Door Access Controller Panel	No	2	
4	Fingerprint Keypad Reader-Standalone	No	2	
5	Magnetic Lock 544 KG Holding Force	No	2	
6	Emergency Door Release Call Point (Breaker Glass)	No	2	
	<b>Carried Forward</b>			R
	Section No. 10 Bill No. 5 Main Laundry			
	<b>Project Code: ZNB 5579/2021-H</b>			

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		Brought Forward		R
	<u>Cables</u>			
7	Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way & CAT6.	m	100	
	<b><u>Ancillary Distribution Boards and Outlets</u></b>			
	<u>Supply and installation of the following metal Ancillary Distribution Boards and coverplates for Data and Telephone outlets. (Conduit and Conduit boxes given elsewhere)</u>			
8	Telephone Distribution Board (450mm x 450mm).	No	1	
9	Data Distribution Board (450mm x 450mm)	No	1	
10	Data, Telephone and Ancillary Coverplates	No	2	
	<u>Cables</u>			
	<b><u>Supply, install, delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts.</u></b>			
11	150mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	80	
	<b><u>Cable Terminations</u></b>			
	<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u>			
12	150mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	10	
	<b><u>Cable Sleeves</u></b>			
	<b>Carried Forward</b>			R
	Section No. 10 Bill No. 5 Main Laundry			
	<b>Project Code: ZNB 5579/2021-H</b>			

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 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			R
<u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u>			
13	110mm Ø Flexible Cable Sleeve	m	15
<u>EXTRA ON UPVC piping for:</u>			
14	100mm Diameter long radius bend	m3	15
<b><u>Conduit</u></b>			
<u>Supply and installation of PVC conduit. Lengths given shall be taken as measured horizontal and vertical runs between conduit terminations. Rates quoted shall allow for wastage, offcuts, couplings, cuttings, bending, jointing socket and tees.</u>			
15	25mm Conduit	m	1 475
16	25mm sprague connectors	m	74
<b><u>Conduit Boxes and Ends</u></b>			
<u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. (excluding coverplates), including holes for conduit.</u>			
17	25mm Conduit (75mm Ø) Round Box	No	108
18	25mm Conduit (50 × 100mm) Galvanized Box	No	20
19	25mm Conduit (100 x 100mm) Galvanized Box	No	49
<b><u>Conduit Ends</u></b>			
<b>Carried Forward</b>			R
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<b>Brought Forward</b>			R
<b><u>Light Switches</u></b>			
<u>Supply, fitting and electrical connection of a Legrand type flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>			
35	16A 1 Lever 1 Way	No	18
36	16A 2 Lever 1 Way	No	2
<b><u>Luminaires</u></b>			
<u>Mounting, fixing and electrically connecting the following luminaires, complete with lamps as specified in Section E of the Detailed Specification.</u>			
Type A1			
37	Fluorescent recessed cans with full plastic cover and secure fasteners. Fluorescent fitting T8 2x58w with prismatic diffuser with emergency light. With 5 year warranty.	No	18
Type B1			
38	1200x600 LED Backlit Panel, 3x36w 5500lm, 4000K, Flicker Free, non dimmable includes 3m 5 amp cordset. With 5 year warranty.	No	59
Type C1			
39	12w high performance non-dimmable downlight, 4000K, 1320lm, 110lm/w, IP44 with 5 year warranty.	No	9
Type J1			
<b>Carried Forward</b>			R
Section No. 10 Bill No. 5 Main Laundry			
<b>Project Code: ZNB 5579/2021-H</b>			

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		<b>Brought Forward</b>		R
40	20w LED Bulkhead, 30 die cast Aluminium base and Black ring trim, 2000lm. With 5 year warranty.	No	22	
	<b><u>Daylight Switch</u></b>			
	<u>Supply and installation of approved daylight switch.</u>			
41	Daylight Switch	No	1	
42	Elbows Internal/External	No	40	
43	End Caps	No	40	
44	Cover Joiner Clips	No	40	
45	16A SSO's c/w cover on Powerskirting	No	2	
	<b><u>Socket Outlets</u></b>			
	<u>Supply, fitting and electrical connection of flush or surface mounted Legrand type switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate</u>			
46	5A Single SSO c/w coverplate.Legrand type.	No	2	
47	16A Single SSO c/w coverplate.Legrand type.	No	2	
48	16A Double SSO c/w coverplate.Legrand type.	No	47	
49	Powerskirting	m	10	
	<b><u>Wireway Installation</u></b>			
50	Supply, install 228mm Wide Medium Duty Galvanized Return Flange Cable Tray. Mounted Underside of Ceiling Complete with all Accessories. Covers, 90° Bends, T-Junctions and rnd Caps etc.	m	100	
		<b>Carried Forward</b>		R
		Section No. 10 Bill No. 5 Main Laundry		
		<b>Project Code: ZNB 5579/2021-H</b>		

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

			<b>Brought Forward</b>		R
51	RJ11 Connector with cradle/ cover and mod blank	No	10		
52	RJ45 Connector with cradle/ cover mod blank	No	10		
53	RJ45 Connector with cradle/ cover mod blank	No	10		
<b><u>Isolators</u></b>					
<u>Supply, install fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate. For more details please refer to the specific drawings</u>					
54	10A Single Pole Isolator FAN Equipment (EAF-1-EAF-2)	No	2		
55	10A Three Pole Isolator FAN Equipment (EAF-3)	No	1		
56	30A Double Isolator switch for Heat Pump (HP)	No	1		
57	20A Double Isolator switch for Circulating Pump (CP)	No	1		
58	20A Double Isolator switch for Mid wall Unit (MW1)	No	1		
59	20A Three Phase Isolator switch for HVAC (ODU1)	No	1		
60	60A Three Phase Isolator Switch for cold room, Freezer, Pump Room (CRU-01)	No	6		
61	100A Three Phase Isolator Switch for washing, drying machines (FRU-01)	No	6		
<b><u>Electrical connection of appliances and installations.</u></b>					
62	Plant (Internal/External Units): Single and three phase connection	No	19		
			<b>Carried Forward</b>		R
			Section No. 10 Bill No. 5 Main Laundry		
			<b>Project Code: ZNB 5579/2021-H</b>		

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 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
<b><u>TELEPHONE INSTALLATION</u></b>			
<b><u>Supply and installation of the following items for the Telephone Installation</u></b>			
63	25mm PVC Conduit	m	10
64	25mm PVC Conduit end	No	10
65	25mm PVC Conduit box	No	5
<b><u>DATA INSTALLATION</u></b>			
<b><u>Supply and installation of the following items for the Data installation</u></b>			
66	25mm PVC Conduit	m	10
67	25mm PVC Conduit end	No	10
68	25mm PVC Conduit box	No	5
<b>Carried Forward to Summary of Section No. 10</b>			R
Section No. 10			
Bill No. 5			
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Item No		Quantity	Rate	Amount
	<b><u>SECTION 11 - ELECTRICAL WORKS</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>MAIN PHARMACY</u></b>			
	<b><u>Distribution Boards</u></b>			
	<u>Supply, installation and commissioning of Kiosk, Distribution Boards, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price, Refer to SLD.</u></b>			
1	DB-MP	No	1	
	<b><u>Security System</u></b>			
	<u>Installation of Camera System equipment and All Access Control Systems.</u>			
	<b><u>Special note, the accessories are inclusive on the quoted price</u></b>			
2	360 Degree resolution CCTV Camera	No	12	
3	Double Door Access Controller Panel	No	2	
4	Fingerprint Keypad Reader-Standalone	No	2	
5	Magnetic Lock 544 KG Holding Force	No	2	
6	Emergency Door Release Call Point (Breaker Glass)	No	2	
	<b>Carried Forward</b>			
	Section No. 10			
	Bill No. 6			
	Main Pharmacy			
	<b>Project Code: ZNB 5579/2021-H</b>			
			R	

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<b>Brought Forward</b>			R
<u>PA System</u>			
Supply and installation of approved PA System.			
Special note, the accessories are inclusive on the quoted price.			
7	PA System	No	1
8	Microphone	No	1
9	DPSPPA DSP124 Round 6.5 Inch Ceiling Speaker. Loud Speaker for PA System	No	2
<u>Cables</u>			
10	Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way & CAT6.	m	200
<b><u>Ancillary Distribution Boards and Outlets</u></b>			
<u>Supply and installation of the following metal Ancillary Distribution Boards and coverplates for Data and Telephone outlets. (Conduit and Conduit boxes given elsewhere).</u>			
11	Telephone Distribution Board (450mm x 450mm).	No	1
12	Data Distribution Board (450mm x 450mm)	No	1
13	Data, Telephone and Ancillary Coverplates	No	48
<u>Cables</u>			
<b>Carried Forward</b>			R
Section No. 10 Bill No. 6 Main Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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<b>Brought Forward</b>			R
	<u>Supply, install delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts.</u>		
14	95mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	45
	<b><u>Cable Terminations</u></b>		
	<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u>		
15	95mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	10
	<b><u>Cable Sleeves</u></b>		
	<u>Supply and Installation of Cable Sleeves as specified, in trenches or cast in concrete, excluding trenching or backfilling.</u>		
16	110mm Ø Flexible Cable Sleeve	m	15
	<u>EXTRA ON upvc piping for:</u>		
17	100mm Diameter long radius bend	m <sup>3</sup>	15
	<b><u>Conduit</u></b>		
	<u>Supply and installation of PVC conduit. Lengths given shall be taken as measured horizontal and vertical runs between conduit terminations. Rates quoted shall allow for wastage, offcuts, couplings, cuttings, bending, jointing socket and tees.</u>		
18	25mm Conduit	m	2 000
<b>Carried Forward</b>			R
Section No. 10 Bill No. 6 Main Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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				Brought Forward		R
19	25mm sprague connectors	m	100			
				<b><u>Conduit Boxes and Ends</u></b>		
				<u>Terminate and connect one pair of conduit ends including supply and installation of 1, 2, 3 or 4 way box on surface or in brickwork. (excluding coverplates), including holes for conduit.</u>		
20	25mm Conduit (75mm Ø) Round Box	No	138			
21	25mm Conduit (50 x 100mm) Galvanized Box	No	27			
22	25mm Conduit (100 x 100mm) Galvanized Box	No	113			
				<b><u>Conduit Ends</u></b>		
				<u>Terminate and connect one pair of conduit ends including lock nuts, bushes, etc. connecting into board tray, wiring channel etc. including cutting holes for conduit entries, but excluding conduit box.</u>		
23	25mm uPVC Conduit	No	200			
				<b><u>Conductors</u></b>		
				<u>Supply and installation of PVC insulated copper conductors drawn into conduit or wiring channel in groups of 2, 3, 4, etc. with the required colour coding, but excluding any wiring connections.</u>		
24	2,5 mm <sup>2</sup> PVC Conductors Red	m	300			
25	2,5 mm <sup>2</sup> PVC Conductors Black	m	600			
26	2,5 mm <sup>2</sup> PVC Conductors Blue	m	450			
27	2,5 mm <sup>2</sup> PVC Conductors Earth	m	600			
28	4 x 2 PVC Wall Box	No	27			
				<b>Carried Forward</b>		R
				Section No. 10		
				Bill No. 6		
				Main Pharmacy		
				<b>Project Code: ZNB 5579/2021-H</b>		

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		<b>Brought Forward</b>		R
29	Hospital Saddle	No	30	
30	4-Way Box PVC	No	30	
31	4 mm <sup>2</sup> PVC Conductors Red	m	500	
32	4 mm <sup>2</sup> PVC Conductors Black	m	500	
33	4 mm <sup>2</sup> PVC Conductors Earth	m	500	
34	Adaptors 25mm	No	50	
35	4 x 4 PVC Wall Box	No	111	
36	Coupling 25mm	No	30	
37	6mm <sup>2</sup> Cable	m	19	
<b><u>Light Switches</u></b>				
<u>Supply, fitting and electrical connection of a Legrand type flush or surface mounted 16A switch in 100 x 50 excluding box (for flush type) and conduit connections, but including cover plates.</u>				
38	16A 1 Lever 1 Way	No	25	
39	16A 2 Lever 1 Way	No	2	
<b><u>Luminaires</u></b>				
<u>Mounting, fixing and electrically connecting the following luminaries, complete with lamps as specified in Section E of the Detailed Specification.</u>				
Type A1				
		<b>Carried Forward</b>		R
		Section No. 10 Bill No. 6 Main Pharmacy		
<b>Project Code: ZNB 5579/2021-H</b>				

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		<b>Brought Forward</b>		R
40	Fluorescent recessed cans with full plastic cover and secure fasteners. Fluorescent fitting T8 2x58w with prismatic diffuser with emergency light. With 5 year warranty.	No	5	
	Type B1			
41	1200x600 LED Backlit Panel, 3x36w 5500lm, 4000K, Flicker Free, non dimmable includes 3m 5 amp cordset. With 5 year warranty.	No	90	
	Type C1			
42	12w high performance non-dimmable downlight, 4000K, 1320lm, 110lm/w, IP44 with 5 year warranty.	No	22	
	Type J1			
43	20w LED Bulkhead, 30 die cast Aluminium base and Black ring trim, 2000lm. With 5 year warranty.	No	21	
	<b><u>Daylight Switch</u></b>			
	<u>Supply and installation of approved daylight switch.</u>			
44	Daylight Switch	No	1	
45	Elbows Internal/External	No	100	
46	End Caps	No	100	
47	Cover Joiner Clips	No	100	
48	16A SSO's c/w cover on Powerskirting	No	65	
	<b><u>Socket Outlets</u></b>			
		<b>Carried Forward</b>		R
		Section No. 10		
		Bill No. 6		
		Main Pharmacy		
		<b>Project Code: ZNB 5579/2021-H</b>		

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<b>Brought Forward</b>				R
<u>Supply, fitting and electrical connection of flush or surface mounted Legrand type switched socket in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate.</u>				
49	5A Single SSO c/w coverplate.Legrand type.	No	2	
50	16A Single SSO c/w coverplate.Legrand type.	No	33	
51	16A Double SSO c/w coverplate.Legrand type.	No	81	
52	Powerskirting	m	110	
<u>Wireway Installation</u>				
53	228mm Wide Medium Duty Galvanized Return Flange Cable Tray. Mounted Underside of Ceiling Complete with all Accessories. Covers, 90° Bends, T-Junctions and Caps.	m	110	
54	RJ11 Connector with cradle/ cover and mod blank	No	50	
55	RJ45 Connector with cradle/ cover mod blank	No	50	
56	RJ45 Connector with cradle/ cover mod blank	No	50	
<b><u>Isolators</u></b>				
<u>Supply, fitting and electrical connection of flush or surface mounted Metal Clad Isolators in either 100 x 100, 100 x 50, round box or wiring channel, excluding box (for flush type) and conduit connections, but including cover plate. For more details please refer to the specific drawings</u>				
57	20A Single pole Isolator switch (ODU-01-ODU-07) for HVAC	No	2	
58	5A Single pole Isolator switch (HAU-01-HAU-07) for HVAC	No	2	
<b>Carried Forward</b>				R
Section No. 10 Bill No. 6 Main Pharmacy				
<b>Project Code: ZNB 5579/2021-H</b>				

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<b>Brought Forward</b>			R
59	10A Single Pole Isolator FAN Equipment (EAF-1-EAF-2)	No	1
60	32A Double-Pole waterproof Isolator for Handdryer (Iso2)	No	2
61	30A Three Phase Isolator Switch for cold room, Freezer, Pump Room & washing machines (CRU-01 & FRU-01)	No	1
<b><u>Electrical connection of appliances and installations.</u></b>			
62	Plant (Internal/External Units): Single and three phase connection	No	8
<b><u>TELEPHONE INSTALLATION</u></b>			
<b><u>Supply and installation of the following items for the Telephone Installation</u></b>			
63	25mm PVC Conduit	m	25
64	25mm PVC Conduit end	No	25
65	25mm PVC Conduit box	No	10
<b><u>DATA INSTALLATION</u></b>			
<b><u>Supply and installation of the following items for the Data installation</u></b>			
66	25mm PVC Conduit	m	25
67	25mm PVC Conduit end	No	25
68	25mm PVC Conduit box	No	10
<b>Carried Forward to Summary of Section No. 10</b>			R
Section No. 10			
Bill No. 6			
Main Pharmacy			
<b>Project Code: ZNB 5579/2021-H</b>			

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Item No		Quantity	Rate	Amount
	<b><u>SECTION 11 - ELECTRICAL WORKS</u></b>			
	<b><u>BILL NO. 7</u></b>			
	<b><u>LIGHTNING PROTECTION</u></b>			
	<p><u>All rates for items contained in this Bill shall be computed excluding the applicable Value Added Tax.</u>  <u>The Contractor shall include in the rates for any work or anything in the Conditions of Contract or Specification or shown on the Drawings not included elsewhere in the Bills of Quantities and for which he considers charges are required.</u></p> <p><u>Allowance for Complete Lightning Protection Installation of all the blocks.</u>  <u>The Lightning Protection installation is to be undertaken by a specialist and is required to provide two soil resistivity tests, one at the beginning of the project and one at completion. The first test is to be conducted within 14 days of the contractor being appointed. The Lightning Protection installer is to provide a Test Certificate in accordance with SANS 10313.</u>  <u>The contractor to note that all conduit provisions for the Lightning Protection installation are to be recessed and provided by the Electrical Sub-Contractor.</u></p> <p><b><u>Down Conductors</u></b></p> <p><u>Supply and fixing on surface in an approved manner of aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.</u></p>			
1	50mm <sup>2</sup> aluminium conductor	m	222	
	<b>Carried Forward</b>			
	Section No. 10			
	Bill No. 7			
	Lightning Protection BOQ			
	Project Code: ZNB 5579/2021-H			
				R

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		Brought Forward		R
		<b><u>Air Terminal Conductors</u></b>		
2	Supply and fixing on surface in an approved manner of 50mm <sup>2</sup> aluminium conductor including all fixing accessories, such as insulating sleeves and stand-off brackets, but not including terminations. Rates quoted shall allow for wastage, off-cuts and joints.	No	76	
		<b><u>Terminations of Down Conductors to Air Terminals</u></b>		
		<u>Termination of aluminium conductor to metal roof as specified including lugs and making off of the ends etc.</u>		
3	50mm <sup>2</sup> aluminium conductor to metal roof.	No	37	
		<b><u>Earthing Conductors</u></b>		
		<u>Supply and laying in the ground and in conduits of copper earth wire as specified in Clause A1.5 excluding terminations. Rates quoted shall allow for wastage, off-cut and joints.</u>		
4	50mm <sup>2</sup> Green PVC insulated copper conductor	m	130	
		<b><u>Termination of Earthing Conductors to Down Conductors</u></b>		
		<u>Termination of earth conductor to aluminium down conductor and earth electrodes including making off the ends, lugs, clamps, etc.</u>		
5	50mm <sup>2</sup> Termination to 50mm <sup>2</sup> conductor	No	76	
		<b><u>Earth Electrodes</u></b>		
		<b>Carried Forward</b>		R
		Section No. 10 Bill No. 7 Lightning Protection BOQ		
		<b>Project Code: ZNB 5579/2021-H</b>		

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		Brought Forward		R
	<u>Supply and installation of earth electrodes generally as specified</u>			
6	1.8m x 16mm diameter copper earth electrodes driven into the ground	No	37	
	<b><u>Termination of Earth Conductors to Earth Electrodes</u></b>			
	<u>Termination of Earth Conductors to Earth Electrodes including making off of ends, lugs, clamps, etc.</u>			
7	50mm <sup>2</sup> Earth Conductor to Earth Electrode	No	37	
	<b><u>General Earth Bonding</u></b>			
8	Bonding of metal drainage down pipes and items.		Item	
	<b><u>Testing</u></b>			
	<u>Supply and testing apparatus and testing in accordance with SABS Code.</u>			
9	Testing of Lightning Protection System		Item	
10	Soil Resistivity Test and Report		Item	
11	The contractor shall allow a sum for a soil resistivity test and report after a 12 month period from the date of Pratical completion		Item	
12	Certificate of Compliance		Item	
13	200 x 200 York Box	No	37	
<b>Carried Forward to Summary of Section No. 10</b>				R
Section No. 10				
Bill No. 7				
Lightning Protection BOQ				
<b>Project Code: ZNB 5579/2021-H</b>				

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Item No	Quantity	Rate	Amount
<b><u>SECTION 11 - ELECTRICAL WORKS</u></b>			
<b><u>BILL NO. 8</u></b>			
<b><u>EXTERNAL WORKS</u></b>			
<b><u>CPAP WORKGROUP NO 160 UNLESS OTHERWISE STATED</u></b>			
<b><u>PREAMBLES</u></b>			
<b><u>Refer to the attached Specifications for the Electrical Installation. The Tenderer must at all times read the Bills of Quantities in conjunction with the specification and drawings prior to pricing this section. Items 1-4 below applies to the entire electrical installation for the school.</u></b>			
<b><u>Preliminaries and General Items</u></b>			
1	Preliminaries and General	Item	
<b><u>General Earthing</u></b>			
2	Earthing and bonding of cold and hot water pipes and all other metal to comply with regulations.	Item	
<b><u>Commissioning and Testing</u></b>			
3	Allow for testing, balancing and commissioning the whole of the electrical installation as laid down in the specification and for re-testing as may be required after the making good of all defective work to the satisfaction of the Department and the Engineer.	Item	
<b>Carried Forward</b> Section No. 10 Bill No. 8 External Works			R
<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			R
<b><u>As Built Drawings</u></b>			
4	Provision for the drawings showing all site cable routes, conduit routes, draw boxes and positions of outlets, etc.	Item	
<b><u>Labelling and Marking</u></b>			
5	Allow for marking and labelling of all equipment, cables, plugs, light switches etc.	Item	
<b><u>Back-Up Generator</u></b>			
6	Back-up 200KVA Generator Dedicated for OPD Building	No	1
<b><u>Solar System</u></b>			
7	Allow for a Connection with the 50kw Solar Sytem inside a storage container	Item	
8	Allowance for Profit		%
9	Allowance for Profit		%
<b><u>Building Management System</u></b>			
10	Building Management System (BMS)		SUM
<b><u>Transformer Upgrade</u></b>			
11	Allow for an upgrade of existing transformer to 800KVA	No	1
12	Pre-cast Plinth for an 800KVA Transformer	No	1
<b><u>New Kiosk</u></b>			
<b>Carried Forward</b>			R
Section No. 10			
Bill No. 8			
External Works			
<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		<b>Brought Forward</b>		R
	<u>Supply and Installation and commissioning of the Kiosk, including making off all wire connections (external wiring, conduit, armoured cable and terminations given elsewhere).</u>  <u>Special note, the accessories are inclusive on the quoted price, Refer to SLD.</u>			
13	Kiosk -1	No	1	
14	Kiosk - 2	No	1	
15	Kiosk -3	No	1	
	<b><u>Guarantee and Maintenance</u></b>			
16	Guarantee and maintenance for the complete installation of Electrical Installation including fittings, materials and workmanship for a period of TWELVE MONTHS after date of completion and handover.		Item	
	<b><u>Certificate of Compliance</u></b>			
17	Provision for the Certificate of Compliance to be issued on completion of the project.		Item	
	<b><u>( Telecommunication Network) Upgrade Existing Server</u></b>			
	<u>Supply, install of Fibre Optic cable (Fibrework/Krone or other Approved) in wire way &amp; CAT5. 1-off 24 Port Internet Switches (3-Com or Other Approved) Housed a 15U Cabinet. 1-off 24 Port Internet Switches (Krone or Other Approved) Housed a 15U Cabinet. Multi-Mode Fibre optic cable to 24- port Switch in offices and one to 24-Port Switch in Security room. The Termibnation of the fibre optic cables in the 15U Cabinets</u>			
18	Fibre Network Installation		Item	
		<b>Carried Forward</b>		R
		Section No. 10 Bill No. 8 External Works		
	<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>			R
19	Supply and Install of Data Equipment		SUM
20	Plus Profit and Attendance		%
<b><u>Excavations</u></b>			
<b><u>CPAP Workgroup No.104</u></b>			
<u>Excavations other than bulk in soft excavation not exceeding 2m deep for:</u>			
<b><u>Allowance is to be made for the installation of cable markers and warning sheets</u></b>			
21	In trenches for cables and sleeves	m3	1 519
22	Extra over "soft excavation" for excavation in intermediate excavations	m3	1 519
23	Extra over "soft excavation" for excavation in hard rock excavations	m3	1 519
<u>Filling obtained from excavations and/or prescribed stock piles on site compacted to 95% Mod AASHTO dencity</u>			
24	Backfilling of trenches	m3	1 519
25	Sides of trenches and hole excavations not exceeding 1.5m deep	m3	1 519
<b><u>Allowance for Removal of Existing Services</u></b>			
<b>Carried Forward</b>			R
Section No. 10			
Bill No. 8			
External Works			
<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Brought Forward			R
	<u>The contractor to allow for the removal and safe disconnection of the electrical equipment</u>		
26	The Monetary Sum Amount for the safe disconnection, removal and termination of all electrical equipment including all light fittings, socket outlets, wiring and Distribution Boards. All equipment to be handed back to the school.	Item	
	<b><u>Cable Markers</u></b>		
	<u>Allow to supply and install cable markers</u>		
27	PVC warning marking tape	m	100
28	Concrete cable route markers	No	5
	<b><u>Cables</u></b>		
	<u>Supply, delivery and laying of PVC/SWA/PVC ECC Copper cables as specified, excluding terminations and cable supports. Lengths given shall be taken as measured lengths to cable runs from terminal to terminal and rates quoted shall include for off-cuts. Refere to SLD &amp; Site Reticulation Layout.</u>		
29	300mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	100
30	120mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	m	521
	<b><u>Cable Terminations</u></b>		
	<u>Including the supply and fitting of Pratley Cable gland, shroud, making off the cable and fitting the gland to gland plates, switchgear or equipment including final connections of cable tails with lugs onto board terminals and including earth in ECC cable.</u>		
31	300mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	30
32	120mm <sup>2</sup> 4C Cu Cable PVC Mains 600/1000V	No	80
	<b>Carried Forward to Summary of Section No. 10</b>		R
	Section No. 10 Bill No. 8 External Works		
	<b>Project Code: ZNB 5579/2021-H</b>		

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

**SECTION SUMMARY - SECTION 11 - ELECTRICAL WORKS**

Bill No		Page No	Amount
1	Paeds & OPD	484	
2	Mortuary	492	
3	Bulk Pharmacy	498	
4	Outsource Laundry	505	
5	Main Laundry	513	
6	Main Pharmacy	521	
7	Lightning Protection BOQ	524	
8	External Works	529	
<b>Carried to Final Summary</b> Section No. 10			R
<b>Project Code: ZNB 5579/2021-H</b>			



**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 12 - PRIME COST AND PROVISIONAL SUMS</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>TEMPORARY WORKS</u></b>			
	<b><u>DECANTING</u></b>			
	<b><u>Paediatric Outpatients Department</u></b>			
1	Relocate staff, equipment and operations temporarily to allow for demolitions and renovations	Item		1 819 360.76
	<b><u>Mortuary</u></b>			
2	Relocate staff, equipment and operations temporarily to allow for demolitions and renovations	Item		258 345.32
	<b><u>Bulk Pharmacy</u></b>			
3	Relocate staff, equipment and operations temporarily to allow for demolitions and renovations	Item		104 750.15
	<b><u>Outsource Laundry</u></b>			
4	Relocate staff, equipment and operations temporarily to allow for demolitions and renovations	Item		308 103.82
	<b><u>New Main Laundry</u></b>			
5	Relocate staff, equipment and operations temporarily to allow for demolitions and renovations	Item		274 658.80
	<b><u>Main Pharmacy</u></b>			
6	Relocate staff, equipment and operations temporarily to allow for demolitions and renovations	Item		199 482.02
	<b>Carried Forward</b>		R	
	Section No. 11 Bill No. 2 Temporary Works			
	<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

<b>Brought Forward</b>		R
<b><u>TEMPORARY DIVERSION OF SERVICES</u></b>		
7	Temporary diversion of services during construction	1 175 000.00
<b>Carried Forward to Summary of Section No. 11</b>		R
Section No. 11		
Bill No. 2		
Temporary Works		
<b>Project Code: ZNB 5579/2021-H</b>		

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

**SECTION SUMMARY - SECTION 12 - PRIME COST AND PROVISIONAL SUM**

Bill No	Provisional Sums	Page No	Amount
1	Provisional Sums	531	
2	Temporary Works	533	

**Carried to Final Summary**  
 Section No. 11

**Project Code: ZNB 5579/2021-H**

R

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 13 - OHS COMPLIANCE</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>HEALTH AND SAFETY WORK PRACTICES</u></b>			
	<b><u>HEALTH AND SAFETY FILE</u></b>			
1	Preparation & submission of health & safety file		SUM	
	<b><u>HEALTH AND SAFETY WORK PRACTICES</u></b>			
2	Access Card (Client, employee, visitors & consultants)	No	250	
3	Allow for appointment of competent Construction Health & Safety Officer		24	
4	Allow for appointment / training of competent Fire fighter	No	3	
5	Allow for appointment/training of competent health and safety representatives	No	3	
6	Allow for appointment / training of competent First Aider	No	3	
7	Allow for appointment/training of competent hFlag man	No	10	
8	Allow for OHS Appointment / Training (Scaffolding Erector, Scaffold Inspector, Working at Heights, Legal Liability, Incident Investigation, HIRA, Fall Protection Planner, Demolition Supervisor, etc.)			SUM
	<b><u>INITIAL (BASELINE) MEDICAL TESTS</u></b>			
9	Entry & Exit Medical Fitness			SUM
	<b><u>PERSONAL PROTECTIVE EQUIPMENT</u></b>			
10	Eye and face protection (Safety goggles)	No	100	
11	Foot protection (Safety Boots & Gamboots)	No	250	
	<b>Carried Forward</b>			R
	Section No. 12			
	Bill No. 1			
	Health and Safety Work Practices			
	<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

	<b>Brought Forward</b>		R
12	Hand protection (Gloves)	No	200
13	Head protection (hard hats)	No	150
14	Earmuffs	No	100
15	Ear plugs	No	100
16	Respiratory protection	No	20
17	Protective clothing (Overalls)	No	200
18	Reflective vests	No	200
19	Sun hats	No	200
20	Other (dusk masks)	No	200
	<b><u>EMPLOYEE WELLNESS</u></b>		
21	Employee Wellness		SUM
	<b><u>EMERGENCY PREPAREDNESS, RESPONSE &amp; EVACUATION</u></b>		
22	First aid box	No	4
23	Stretcher and neck braces		Item
24	Emergency siren	No	4
25	Whistle	No	10
26	Fire Blanket	No	4
27	Two-way Radio	No	15
28	Fire extinguisher	No	10
	<b>Carried Forward to Summary of Section No. 12</b>		R
	Section No. 12		
	Bill No. 1		
	Health and Safety Work Practices		
	<b>Project Code: ZNB 5579/2021-H</b>		

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Item No		Quantity	Rate	Amount
	<b><u>SECTION 13 - OHS COMPLIANCE</u></b>			
	<b><u>BILL NO. 1</u></b>			
	<b><u>CONSTRUCTION ACT AND REGULATION</u></b>			
	<b><u>DOCUMENTATION</u></b>			
1	OHS Act chart	No	2	
2	BCE chart	No	2	
3	Construction Regulation charts	No	2	
	<b><u>CONSTRUCTION SIGNS</u></b>			
4	No entry signs	No	15	
5	PPE signs	No	15	
6	Sanitation signs	No	10	
7	Scaffolding signs	No	40	
8	Safety stickers	No	200	
9	Heavy mobile vehicles signs	No	15	
10	Fire extinguishers signs	No	10	
11	Emergency exits signs	No	40	
12	Smoking signs	No	10	
13	First aid signs	No	10	
14	Excavation safety signs	No	10	
	<b>Carried Forward</b>			R
	Section No. 12			
	Bill No. 2			
	Compliance			
	<b>Project Code: ZNB 5579/2021-H</b>			

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

		Brought Forward		R
15	Flag for flag man	No	8	
16	Road safety signs	No	20	
<b><u>FALL PROTECTION EQUIPMENT</u></b>				
17	Double stranded safety harness with pylon hooks	No	30	
18	Fall arrest equipment	No	20	
19	Lifeline	No	10	
20	Tool lanyards	No	50	
<b><u>WELFARE FACILITIES</u></b>				
21	Allow cleaning material and equipment, maintenance, Eye fountains and Barricading net	m	1	
<b><u>OCCUPATIONAL HYGIENE</u></b>				
22	Occupational Hygiene surveys and PPE for accessing Contamination areas		Item	
<b><u>WASTE MANAGEMENT EQUIPMENT / ACCESSORIES</u></b>				
23	Waste management (Bin, liners, spill kit, drip, etc)			SUM
<b>Carried Forward to Summary of Section No. 12</b>				R
Section No. 12				
Bill No. 2				
Compliance				
<b>Project Code: ZNB 5579/2021-H</b>				

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

**SECTION SUMMARY - SECTION 13 - OHS COMPLIANCE**

Bill No		Page No	Amount
1	Health and Safety Work Practices	536	
2	Compliance	538	

**Carried to Final Summary**  
 Section No. 12

**Project Code: ZNB 5579/2021-H**

R

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	SECTION 2 - PAEDIATRIC OUTPATIENTS DEPARTMENT	165	
2	SECTION 3 - MORTUARY ALTERATIONS	211	
3	SECTION 4 - BULK PHARMACY	253	
4	SECTION 5 - OUTSOURCE LAUNDRY	294	
5	SECTION 6 - NEW MAIN LAUNDRY	331	
6	SECTION 7 - MAIN PHARMACY	365	
7	SECTION 8 - VEHICLE WASH AREA	400	
8	SECTION 9 - PIPED SERVICES	403	
9	SECTION 10 - MECHANICAL WORKS	474	
10	SECTION 11 - ELECTRICAL WORKS	530	
11	SECTION 12 - PRIME COST AND PROVISIONAL SUMS	534	
12	SECTION 13 - OHS COMPLIANCE	539	
	Subtotal		R
	CONTRACT ESCALATION		R
	Sub-Total		R
	<b><u>CONTINGENCIES</u></b>		
	Contingencies to be used at the discretion of the Principal Agent or deducted in whole or in part if not required		R
	<b>Carried Forward</b>		R
	<b>Project Code: ZNB 5579/2021-H</b>		

**LADYSMITH HOSPITAL  
 CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD,  
 RECONFIGURATION OF LAUNDRY AND MORTUARY CONVERSION OF  
 GARAGE TO STORAGE AND RESURFACING OF NEW VEHICLE WASH AREA**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
	<b>Brought Forward</b>		R
	Sub-Total		R
	<b><u>Value Added Tax</u></b>		
	Value Added Tax at 15%		R
	<b>Carried to Form of Tender</b>		R
	<b>Project Code: ZNB 5579/2021-H</b>		



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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM,  
RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO  
STORAGE AREA**

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**PART C3. SCOPE OF WORKS**

<b>C3.1 SCOPE OF WORKS</b>			
<b>GCC FOR CONSTRUCTION WORKS (Edition 2 of 2010)</b>			
Scope of Works complied in accordance with SANS 10403 where reference is made to this part of SANS 1921-1:2004			
<b>Project title:</b>	<b>LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA</b>		
<b>Tender no:</b>	<b>ZNB 5243/2025 - H</b>	<b>Project Code:</b>	<b>LADY004</b>
<b>1</b>	<p><b><u>SECTION 1</u></b></p> <p><b><u>EXTENT OF THE WORKS</u></b></p> <p><b>1.1 EMPLOYERS OBJECTIVES</b></p> <p><b>Paediatric OPD Room;</b> To increase daily and weekly operational hour of paediatric OPD at Ladysmith Hospital To increase number of consultation in the paediatric OPD at Ladysmith Hospital.</p> <p><b>Mortuary;</b> To increase safety and security for staff and visitors at Ladysmith Hospital To reduce operational cost at Ladysmith Hospital</p> <p><b>Laundry;</b> To increase rate of efficiency at Ladysmith Hospital</p> <p><b>Pharmacy Storage;</b> To increase storage capacity at Ladysmith Hospital</p> <p><b>1.2 OVERVIEW OF THE WORKS</b></p> <p>Conversion of existing space into Paediatric OPD room, reconfiguration of laundry area, new vehicle wash area resurfacing of tarred area, conversion of garages to storage area, reconfiguration of mortuary.</p> <p><b>1.3 EXTENT OF THE WORKS</b></p> <p><b>Paediatric OPD</b></p> <ul style="list-style-type: none"> <li>• Provide a 24 hour paediatric outpatient department (cold cases plus emergencies)</li> <li>• Provide 4 emergency beds (each with 5 electrical points, oxygen point and suction point)</li> <li>• Provide 5 consulting rooms</li> <li>• An area with an infant resuscitation for neonates (3 electrical points, oxygen and suction points)</li> <li>• Rehydration area</li> <li>• Waiting area</li> <li>• Reception area</li> <li>• Tea room for staff</li> <li>• Ablution facility for staff and patients</li> <li>• Office space for administrative purposes of the unit</li> <li>• Store room for consumables and surgical sundries</li> <li>• Temperature controlled</li> <li>• Separate entrance for EMS</li> <li>• 2 dormitories 6 bed Mother's lodge</li> <li>• 1 dormitory 2 bed Father's lodge</li> </ul> <p><b>Mortuary</b></p> <ul style="list-style-type: none"> <li>• Office space</li> <li>• Visitor Admin space</li> <li>• Visitor's Reception / Entrance</li> <li>• Visitor's Waiting - Partition and convert open space adjacent to the mortuary into bereaved families waiting and ablutions</li> <li>• Visitor's Ablutions</li> <li>• Viewing Room</li> <li>• Body Display, Preparation and Storage - Procure and install closable shelves / cabinets for bodies</li> <li>• Body Preparation</li> <li>• Body Storage</li> <li>• Service Vehicle Access</li> <li>• Staff Showers, Change and Ablution - Partition and convert part of the post-mortem / autopsy area into a staff eating room</li> </ul>		

**Laundry**

- Complete the electrical cable by installing upgraded distribution board
- Procurement and installation of a new hot water tank
- Install on the laundry roof of cold water tank
- Separate washing area to clean and dirty linen area
- Build clean linen exit
- Renovate and extend staff eating area and ablutions.

**Pharmacy Store**

- Storage area with the bottom and top storage areas, same as the current ARV and IV fluid storage.
- Two hydraulic lifts to move stock up and down the bottom and top storage areas
- Provide double sink
- Floor and shelving that meets the good pharmacy practice standards
- Air-conditioning
- Security cameras and alarm system.

**1.4 LOCATION OF THE WORKS**

Ladysmith hospital is roughly 81,946.2 sq.m in size. The hospital is situated along Malcom Road, Ladysmith in KwaZulu Natal. Nearby main roads are the N11 highway to the South and East of the hospital as well as the R103 to the West. Ladysmith is located 68.7km South-West of Dundee and 102km South of Newcastle on the N11 in KwaZulu Natal.

**1.5 TEMPORARY WORKS**

All temporary work to comply with the Occupational Health and safety Act (Act 85 of 1993)

**2 ENGINEERING**

**2.1 EMPLOYER'S/CONTRACTOR'S DESIGN**

Not applicable

**2.2 DESIGN BRIEF**

Not applicable

**2.3 DRAWINGS**

See list of Drawings/Annexures attached to this document

**2.4 DESIGN PROCEDURES**

Not applicable

**3 PROCUREMENT**

**3.1 PREFERENTIAL PROCUREMENT PROCEDURES**

This tender will be subject to the implementation of the Preferential Procurement Regulations, 2022 pertaining to the Preferential Procurement Policy Framework Act, Act Number 5 of 2000 and the relevant Supply Chain Management Legislation and the KwaZulu-Natal Supply Chain Management Policy Framework published by the KwaZulu-Natal Provincial Treasury. Tenderers are referred to [www.kzntreasury.gov.za](http://www.kzntreasury.gov.za) for access to the relevant documents.

Tenderers are advised to familiarize themselves with the contents of the KwaZulu-Natal Supply Chain Management Policy Framework regarding Preference Point Systems, evaluation of tenders appeals and other matters.

**3.2 RESOURCE STANDARD PERTAINING TO TARGETED PROCUREMENT**

NOTE : This project will be adjudicated as not exceeding R 50,000 000,00

**3.3 SCOPE OF MANDATORY SUBCONTRACT WORK**

Not applicable

**3.4 PREFERRED SUBCONTRACTORS/SUPPLIERS**

Not applicable

**3.5 SUBCONTRACTING PROCEDURES**

Not applicable

4

## **CONSTRUCTION**

### **4.1 APPLICABLE SANS 2001 STANDARDS FOR CONSTRUCTION WORKS**

The Contractor is referred to the "Model Preambles to Trades - 2008", any "Supplementary Preambles", the Electrical Specifications and Mechanical Specification for full descriptions of materials and methods referred to in these Bills of Quantities/Lump Sum documents, insofar as they apply. The Contractor is advised to study the "Standard Preambles to all Trades", any "Supplementary Preambles", the Electrical Specifications and Mechanical Specification, before pricing Bills of Quantities/Lump Sum documents.

Where the description in the Bills of Quantities/Lump Sum documents differ from those in the Standard Electrical Specifications, the descriptions in the Bills of Quantities/Lump Sum documents are to apply. No claim whatsoever will be allowed in respect of errors in pricing due to brevity of description of items in the Bills of Quantities/Lump Sum documents which are fully described when read in conjunction with the relevant Preambles and/or Specifications. Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9000 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

Wherever the words "shall be deemed to be included in the description", "shall be stated" or other words having the same effect, appear in the Standard System, it shall be deemed that all descriptions in these Bills of Quantities/Lump Sum documents incorporated such inclusions and statements whether specifically stated or not.

The Contractor is hereby informed that where SABS/SANS Specifications are referred to in these Bills of Quantities/Lump Sums documents and Specifications thereto, then ONLY the Specification of Work Clauses will apply. The method of measurement and payment clauses will NOT apply to this Contract.

The Contractor is hereby informed that risk of collapse and keeping excavations free from water (excluding subterranean water) generally are deemed to be included in the descriptions unless accommodated in the system of measurement. Please refer to the Geotechnical Investigation report when included at the end of these tender documents.

Whenever reference is made to "Sub-Contractor", "Nominated Sub-Contractor" or the like in the specifications included or referred to in these Bills of Quantities/Lump Sums documents, it shall be deemed to mean "Contractor" as defined.

### **4.2 APPLICABLE NATIONAL AND INTERNATIONAL STANDARDS**

See above 4.1

### **4.3 PARTICULAR / GENERIC SPECIFICATIONS**

The Contractor is referred to the following documents whether attached to this document or not:

<b><u>SPECIFICATION</u></b>	<b><u>PAGES</u></b>
Specification for HIV/AIDS Awareness (CIDB)	HIV1 TO HIV3
Specific Construction, Safety, Health and Environmental Plan	
Standard Preambles for all Trades (Rev 3) - DOH 2009	1 to 95
General Electrical Specification	E/1 to E/20
Lightning Protection Installation	LP/1 to LP/6

### **4.4 CERTIFICATION BY RECOGNIZED BODIES**

Appointed consultants must be actively registered with their relevant professional discipline

### **4.5 AGRÉMENT CERTIFICATES**

Not applicable

### **4.6 PLANT AND MATERIAL PROVIDED BY THE EMPLOYER**

Not applicable

### **4.7 SERVICES AND FACILITIES PROVIDED BY THE EMPLOYER**

None.

### **4.8 OTHER SERVICES AND FACILITIES**

The Contractor shall provide any artificial lighting which may be necessary or required for the proper execution of the works, and provide electric power and water required by all Sub-Contractors, Nominated Sub-Contractors and Sub-Contractors appointed directly by the Administration.

The Contractor shall give all notices and pay all fees in connection with temporary electrical and water connections and shall connect temporary Electrical and Water meters for and pay for all current and water consumed.

The Contractor is advised that the permanent light fittings and water points of any kind installed in the Works are not to be used to provide temporary lighting and supplement water requirements for construction purposes.

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## **MANAGEMENT**

### **5.1 APPLICABLE SANS 1921 STANDARDS**

SANS 876:2016 - Cable terminations and live conductors within air-filled enclosures (insulation co-ordination) for rated a.c. voltages from 7,2 kV up to and including 36 kV.

SANS 1874:2015 - Switchgear - Metal-enclosed ring main units for rated a.c. voltages above 1 kV and up to and including 36 kV.

o The Occupational Health and Safety Act (Act 85, 1993) as amended

o The control panel, associated components and wiring shall be installed in compliance with the latest, relevant and applicable standards.

o SANS 10147: Refrigerating systems, including plants associated with AC systems

o SANS 347: Categorization and conformity assessment criteria for all pressure equipment

o SANS 10142: Code of Practice for Wiring of Premises

o SANS 60947-1: 2005/IEC 60947-1: 2004 to SANS 60947-8: 2004/IEC 60947-8: 2004: Low voltage switch gear and control gear.

o A Certificate of Conformity, in accordance with the OHS Act as amended and SANS 347, will be required for all refrigeration and air-conditioning works

o KwaZulu-Natal Department of Health Policy on Design of Mechanical Installations

o An Electrical Certificate of Compliance, in accordance with the OHS Act as amended, will be required for all Electrical Works.

o The Machinery and Occupational Safety Act - Act 6/1983

o The Municipal by-laws and any special requirements of the Supply Authorities of the area or district concerned.

o Local Fire Regulations.

o All building works shall be in accordance with the Standard Preambles to All Trades. The contractor should fully familiarise himself with these documents prior to quoting.

### **5.2 RECORDING OF WEATHER**

The Contractor shall keep record of abnormal climatic conditions to facilitate the adjudication of claims for extension of the contract period.

The Contractor shall allow in his programme for the following number of days for rain days (rain > 10mm per day) as per the table below:

CURRENT YEAR			YEAR + 1	YEAR + 2
January	w/days	3	3	3
February	w/days	3	3	3
March	w/days	3	3	3
April	w/days	3	3	3
May	w/days	3	3	3
June	w/days	3	3	3
July	w/days	3	3	3
August	w/days	3	3	3
September	w/days	3	3	3
October	w/days	3	3	3
November	w/days	3	3	3
December	w/days	3	3	3

### **5.3 MANAGEMENT MEETINGS**

In order to facilitate the smooth functioning of the Works and to ensure the closest co-operation between all the parties concerned, the Employer will call for regular meetings to be held on the site, at which a senior member of the Contracting firm and the General Foreman of the Works will always be required to be present.

In addition to the above, other persons will be required to attend these meetings as and when their presence is necessary, e.g., Consultants in all disciplines, representatives of the various Sub-Contractors, etc.

Proper minutes of these meetings will be kept by the Employer\Principal Agent and copies will be circulated to all persons attending the meetings and to others who need to be kept informed.

### **5.4 FORMS FOR CONTRACT ADMINISTRATION**

The Employer shall provide all necessary forms.

<p>5.5</p> <p>5.6</p> <p>5.7</p> <p>5.8</p> <p>5.9</p> <p>5.10</p> <p>5.11</p> <p>Clause Numbers</p> <p>4.1.7</p>	<p><b>ELECTRONIC PAYMENTS</b></p> <p>The Contractor shall provide all required information to the Employer to facilitate electronic payments upon request.</p> <p><b>DAILY RECORDS</b></p> <p>The Contractor shall keep daily records of people and equipment employed as well as a site diary in respect of work performed on the site. At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all Sub-Contractors on the works each day. 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, currently used on the works.</p> <p><b>BONDS AND GUARANTEES</b></p> <p>The Contractor shall within 10 calendar days after receiving notice from the Engineer and prior to receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the Contract Data.</p> <p><b>PAYMENT CERTIFICATES</b></p> <p>Requirements will be in accordance with the Employers prescriptions.</p> <p><b>PERMITS</b></p> <p>The Contractor is advised that, in the case of an existing building or institution, all security measures in force will remain in operation and he must acquaint himself and his Employees with them as he and his Employees will at all times be subject to these measures. The Contractor will on no account extend his operations beyond the confines of the building site as indicated by the Employer and must ensure that all his Employees are made aware of these limits. Any Employee disregarding this instruction and found outside the limit of the building site without authority, shall be redeployed immediately and shall not again be employed on this Contract. The Contractor will be responsible for ensuring that this instruction is strictly enforced and must provide and remove upon completion or when directed, such other necessary temporary barriers, fences, etc., as may be required and is to allow opposite this item for any charges he may wish to make in this connection. The Employer will accept no responsibility whatsoever for damage to or the loss of plant, materials, etc., from the site.</p> <p><b>PROOF OF COMPLIANCE WITH THE LAW</b></p> <p>The following certificates must be provided before first delivery is taken:</p> <ul style="list-style-type: none"><li>- Electrical Compliance Certificate</li><li>- Lightning Certificate</li><li>- Electrical and Mechanical test certificates</li><li>- SANS 10400-A:2010 compliance certificates</li><li>- Latest National Building Regulation</li><li>- Asbestos removal compliance certificates</li></ul> <p><b>INSURANCE PROVIDED BY THE EMPLOYER</b></p> <p>Not Applicable</p> <p><b><u>SECTION 2</u></b></p> <p><b><u>SPECIFICATION DATA ASSOCIATED WITH SANS 1921-2004</u></b></p> <p><b>The requirements for drawings, information and calculations for which the Contractor is responsible are:</b></p>
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4.2.1	<p><b>The responsibility strategy assigned to the Contractor for the works is:</b></p> <p>Strategy A</p>
4.2.2	<p><b>The structural engineer is:</b></p> <p></p>
4.2.3	<p><b>Drawings &amp; other info are to be submitted in accordance with the contractors programme</b></p> <p>Not applicable</p>
4.3	<p><b>The planning, programme and method statement are to comply with the following:</b></p> <p>N/A</p>
4.12.1	<p><b>Samples of materials</b></p> <p>The work is to be executed with materials of the best specified and in the most substantial and workmanlike manner under the inspection of the Employer and to his satisfaction. The Contractor shall furnish, without delay, such samples as called for or may be called for by the Employer, who may reject all materials or workmanship not corresponding with the approved sample. The samples of materials, workmanship and finishes that the Contractor is to provide and deliver to the employer are: TBC</p>
4.12.2	<p><b>Fabrication drawings that the contractor is to provide to the employer are:</b></p> <p>None</p>
4.12.3	<p><b>Office accommodation, equipment, accommodation for site meetings and other facilities for use by the employer and his agents are:</b></p> <p>OFFICE FOR FOREMAN</p> <p>Provide, erect, maintain and remove at completion a suitable temporary office for the Contractor or his Foreman, perfectly secured, lighted and ventilated and having a desk with drawers.</p> <p>TELEPHONE</p> <p>The Contractor shall provide a telephone on the site for the use of the Contractor and all Sub-Contractors for the duration of the Contract, and must make the necessary application for connection, give all notices and pay all fees, rentals and charges for the service and also for all calls.</p> <p>OFFICE FOR INSPECTOR OF WORKS</p> <p>Provide, erect, maintain and remove at completion a well constructed temporary office for the Inspector of Works not less than 4 x 3 m on plan and 3 m high to eaves to the approval of the Employer. The office shall be constructed of wood framing covered externally with corrugated iron or corrugated asbestos and with a lean-to roof covered with the same material as the external wall covering. The office shall be lined internally with soft board or other approved material and a ceiling shall be provided of the same material as the internal lining. A suspended wood floor shall be provided and is to finish not less than 300 mm above the ground level. A lockable door and a window, which provides adequate light and ventilation, shall be fitted. An office constructed of 115 mm thick brick-work and provided with a screeded concrete floor and roofed and ceiled as above described may be accepted as an alternative but prior permission of the Employer will be necessary before construction of such an office is commenced and his requirements shall be stated and fulfilled by the Contractor. The office shall be fitted in an approved manner with a sloping topped desk of height and length suitable for the laying out and studying of drawings, a desk or table with not less than two lock-up drawers, shelves, seating and wash-stand, and the Contractor shall provide all necessary attendance.</p> <p>TELEPHONE IN OFFICE FOR INSPECTOR OF WORKS</p> <p>The Contractor shall arrange for the installation of a lockable telephone in the Office for the Inspector of Works for the duration of the Contract. The Contractor will be required to make the necessary application for connection and give all notices on behalf of the Employer. The Employer will, however, be responsible for the direct payment of all fees, rentals and other charges by Telkom for the service for the Inspector of Works and for all calls made from this telephone.</p>

	<p>SHED</p> <p>Provide, erect, maintain and remove at completion, ample temporary sheds for the proper storage of materials and for the use of the workmen, and remove when no longer required.</p>
<b>4.14.6</b>	<p><b>The requirement for provision and erection of signboards are:</b></p> <p>Supply, erect, maintain and remove at completion a painted notice board, size overall 2800 x 2345 mm high sign written to detail as Drawing No. T9506 which drawing is available from offices of the Department of Public Works. Only the official notice board is to be displayed on the site and no Sub-Contractor's boards will be permitted. The Contractor, at his own cost, may provide a board on which all sub-contract firms' names may be sign written. The notice board is to be to the approval of the Employer and is to be maintained in first class condition and placed where directed at the entrance to the site and remain there for the duration of the Contract.</p>
<b>4.17.1</b>	<p><b>Requirement for the termination, diversion or maintenance of existing services:</b></p> <p>Should the Contractor come in contact with any underground cables or pipes during excavations, immediate notification must be made to the Employer and all work in the vicinity of such cables, pipes, etc., shall cease until authority to proceed has been obtained from the Employer. Should the Contractor damage underground cables or pipes resulting in a disruption of services to an existing institution such damage shall be repaired immediately.</p>
<b>4.17.3</b>	<p><b>Services which are known to exist on the site:</b></p> <p>Investigate and provide detail drawings.</p>
<b>4.17.4</b>	<p><b>Requirement for detection apparatus</b></p> <p>None</p>
<b>4.18</b>	<p><b>ADDITIONAL HEALTH AND SAFETY REQUIREMENTS ARE:</b></p> <p>By the submission of a tender, any Tenderder will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act. As a mandatory the successful Tenderder will be deemed to be the "principal contractor" and an employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed and machinery and plant used in accordance with the Act. Should the Contractor, for whatever reason be unable to perform as required by the Act, the Contractor undertakes to inform the Employer accordingly.</p> <p>Tenderders are advised that it is a Condition of this Tender that a 'Construction Phase Safety, Health and Environmental Plan' specifically relates to the project for which tenders are being submitted and must be prepared by the Tenderder and submitted with the other tender documents at the time of tender. Failure to do so will invalidate the tender.</p> <p>Tenderders are therefore advised to study the 'Construction Safety, Health and Environmental Specification' which is issued as part of this tender document, the Model Preambles to Trades - 2008, any project Specification included in this tender document and any and all drawings which are referred to and issued as part of this tender document before preparing their own project specific 'Construction Phase Safety, Health and Environmental Plan'. Tenderders are also advised that such a plan which is submitted with a tender but is incomplete or considered inadequate by the Employer or his Representative will invalidate the tender.</p> <p>The Contractor will be deemed to have satisfied himself with his obligations in terms of the Act and to have allowed for all costs arising from compliance with the Act as no claim for extra costs arising from compliance with, and obligations in terms of the Act will be entertained.</p>
<b>4.22</b>	<p><b>WORK BY NOMINATED AND SELECTED SUBCONTRACTORS COMPRISE:</b></p> <p>List of applicable sub-contractors to be compiled post award.</p>

## C3.2 - SPECIFICATION FOR HIV/AIDS AWARENESS

### 1 Scope

This generic specification contains requirements applicable to the reduction of the risk of transfer of the HIV virus between and among construction workers and the local community through the following four strategies:

- a) raising awareness about HIV/AIDS;
- b) providing construction workers with access to condoms;
- c) HIV counselling, testing and referral services; and
- d) Sexually Transmitted Infection diagnosis and treatment.

### 2 Normative references:

The following standard contains provisions that, through reference in this text, constitute provisions of this standard:

SANS 4074 ISO 4074, *Condom Rubbers*

### 3 Definitions and Abbreviations

#### 3,1 Definitions

**Construction Worker:** all persons in the employ of the contractor or in the employ of any of the subcontractors contracted by the contractor.

**Local Community:** the communities local to the site which are most likely to have contact with the construction worker and, in particular, sex workers in those communities.

**Service provider:** the natural or juristic person recognised by the South African Department of Health as specialist in conducting Aids Awareness Programmes.

#### 3,2 Abbreviations

STI: Sexually transmitted infection

HIV: Human Immunodeficiency Virus

AIDS: Acquired Immune Deficiency Syndrome

### 4 Objectives

The objectives are to:

- a) reduce the risk of transfer of the HIV virus between and among construction workers and the local community;
- b) raise awareness amongst construction workers and the local community of the risk of infection with the HIV virus;
- c) promote early diagnosis; and
- d) assist affected individuals to access care and counselling.

- b) either place and maintain HIV/AIDS awareness posters of size of not less than A1 in areas which are highly trafficked by construction workers, or provide construction workers with a pamphlet, in languages largely understood by construction workers, which
- c) encourage voluntary HIV/STI testing;
- d) provide information concerning counselling, support and care of those that are infected services; and
- e) comply with the requirements of 5.2.

***The provisions of 5.1 c) and d) do not apply to this contract.***

## **5,2 HIV awareness programme**

### **5.2.1** The contractor shall:

- a) engage a qualified service provider as described in the scope of works to conduct an HIV Awareness Programme which is structured to achieve the outcomes stated in 5.2.3 for contract workers as soon as a construction workers camp is established and populated or, where no such camp is established, within two weeks of the commencement of a significant portion of the works and at subsequent intervals, if any, provided for in the scope of works; and
- b) arrange for, provide a suitable venue, and instruct all construction workers to attend the HIV Awareness Programme and notify the Employer's Representative of the date, time and venue whenever a session with construction workers is conducted.

**Note: The National Department of Public Works maintains a list of qualified service providers.**

**5.2.2** The contractor shall do nothing to dissuade construction workers from attending such an HIV Awareness Programme and shall take all reasonable steps to ensure that a minimum of 90% of construction workers engaged in the works attend such a programme, when it is conducted.

**5.2.3** The outcomes of the HIV Awareness Programme shall as a minimum, result in contract workers exposed to such a programme being able to:

- a) communicate the existence of problems of HIV and be able to outline the consequences of transmission of HIV to or from the local community;
- b) recall and communicate the mode of HIV transmission and preventative measures including the proper use of the condom.

**The HIV/ Aids awareness programme described in 5.2 is to be repeated at four month intervals throughout the duration of the contract. (Four times in total, including the initial one at the start of the contract)**

### 5.3 Reporting

- 5.3.1** The contractor shall prepare and attach to his claims for payment a brief report which outlines how the actions taken by the contractor in the period for which payment is claimed satisfy the requirements and a schedule which lists the names, identity numbers, trade / occupation and name of employer of all construction workers exposed to the programme (see **HIV/STI Compliance Report**).
- 5.3.2** The employer's representative shall certify the report and schedule described in 5.3.1 whenever a claim for payment is issued to the employer.

**Note: In the event that the contractor fails to satisfy the requirements of this specification, the employer (Head: Public Works) may apply any of the sanctions provided for in the contract. Sanctions may include the application of a financial penalty of .04% of the Contract Sum.**

The *HIV /Aids* awareness programme *described* in 5.2 shall in addition *be conducted* for the benefit of the local community on two occasions in the community centre nearest to the building site. The contractor shall be *responsible* for inviting identifiable community-based *institutions and organisations, churches, and schools to participate in the* programme.

## C3.3 - HIV/STI COMPLIANCE REPORT

Pro-forma reporting format in terms of the SPECIFICATION FOR HIV/AIDS AWARENESS

Project Code:

LADY004

Payment Claim number:

Period covered by payment claim:

1. Distribution of condoms (briefly describe where and how condoms are distributed).

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2. Posters / pamphlets (briefly describe where posters were placed / how pamphlets were distributed).

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3. Voluntary testing (briefly describe the actions taken / information provided to promote testing).

4. Counselling, support and care (summarise information provided).

5. HIV awareness programme (briefly describe action).

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**LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA**

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**PART C4. SITE INFORMATION**

**C4.1 SITE INFORMATION**  
**GCC FOR CONSTRUCTION WORKS (2 Edition of 2010)**

<b>Project title:</b>	<b>LADYSMITH HOSPITAL: CONVERSION OF EXISTING SPACE INTO PAEDIATRIC OPD ROOM, RECONFIGURATION OF LAUNDRY AND MORTUARY, CONVERSION OF GARAGE TO STORAGE AREA</b>		
<b>Tender No.</b>	<b>ZNB 5243/2025-H</b>	<b>Project Code:</b>	<b>LADY004</b>

**C4.1 Site Information**

**C4.1 GENERAL**

- (a) Ladysmith hospital is roughly 81,946.2 sq.m in size. The hospital is situated along Malcom Road, Ladysmith in KwaZulu Natal. Nearby main roads are the N11 highway to the South and East of the hospital as well as the R103 to the West. Ladysmith is located 68.7km South-West of Dundee and 102km South of Newcastle on the N11 in KwaZulu Natal.

**C4.2 GEOTECHNICAL INVESTIGATION REPORT**

- (a) Attached as an Annexure