

# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No	Quantity	Amount
<p><b><u>SECTION NO.1</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>BUILDING AGREEMENT AND PRELIMINARIES</u></b></p> <p>The <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The <b>JBCC</b> Principal Building Agreement <b>contract data</b> form an integral part of this <b>agreement</b></p> <p>The <b>JBCC</b> General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the <b>JBCC</b> Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these <b>bills of quantities</b>, amended as hereinafter described</p> <p>The <b>contractor</b> is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause</p> <p>The clauses in the above mentioned documents are hereinafter referred to by clause number and heading only</p> <p>Where any item is not relevant to this <b>agreement</b> such item is marked N/A signifying "not applicable"</p> <p>Where standard clauses or alternatives are not entirely applicable to this <b>agreement</b> such amendments, modifications, corrections or supplements as will apply are given under each relevant clause heading and such amendments, modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the above mentioned documents</p>		
<p style="text-align: right;"><b>Carried Forward</b></p>		R
<p>Section No. 1 : Preliminaries and General</p> <p><b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b></p> <p><b>ZA-ENG CONSULTING</b></p>		

<p style="text-align: right;"><b>Brought Forward</b></p> <p><b><u>PREAMBLES FOR TRADES</u></b></p> <p><i>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. <b>Where such preambles are not applicable</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 Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications</i></p> <p><i>Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same</i></p> <p><i>The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future</i></p> <p>The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these <b>bills of quantities</b> and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these <b>bills of quantities</b> to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles</p> <p>The <b>contractor's</b> prices for all items throughout these <b>bills of quantities</b> shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications</p> <p><b><u>STRUCTURE OF THIS PRELIMINARIES BILL</u></b></p> <p>Section A : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> Principal Building Agreement</p> <p>Section B : A recital of the headings of the individual clauses in the aforementioned <b>JBCC</b> General Preliminaries</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b></p>	<p style="text-align: center;">R</p> <hr/> <p style="text-align: center;">R</p>
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	<p>The items in these <b>bills of quantities</b> utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the <b>contractor</b> shall, before submission of his tender, call for a written directive from the <b>principal agent</b>, failing which it shall be assumed that the <b>contractor</b> has allowed in his pricing for materials and workmanship in terms of international best practice</p> <p><b>Legal status of contractor</b></p> <p>If the <b>contractor</b> constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:</p> <ol style="list-style-type: none"> <li>1. These persons are deemed to be jointly and severally liable to the <b>employer</b> for the performance of this <b>agreement</b></li> <li>2. These persons shall notify the <b>employer</b> of their leader who has assigned authority to bind the <b>contractor</b> and each of these persons</li> <li>3. The <b>contractor</b> shall not alter its composition or legal status without the prior written consent of the <b>employer</b></li> </ol> <p>F:..... V:..... T:.....</p>		
2	<p>Clause 2.0 - <b>Law</b>, regulations and <b>notices</b></p> <p>F:..... V:..... T:.....</p>	Item	
3	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>	Item	
4	<p>Clause 4.0 - Cession and assignment</p> <p>F:..... V:..... T:.....</p>	Item	
5	<p>Clause 5.0 - Documents</p> <p><b>Value Added Tax</b></p> <p>Provision is made in the summary page of these <b>bills of quantities</b> for the inclusion of Value Added Tax (VAT)</p>		
	<b>Carried Forward</b>	R	
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	<p><b>Priced document as specification</b></p> <p>Clause 5.4 is deemed to be deleted</p> <p>The <b>principal agent</b> shall decide which portion of the <b>priced document</b> may be used as a specification of <b>materials and goods</b> or methods, if any</p> <p><b>Electronic issue of drawings</b></p> <p>All drawings for this project will be issued electronically and the <b>contractor</b> shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]</p> <p>F:..... V:..... T:.....</p>		
6	<p><b>Clause 6.0 - Employer's agents</b></p> <p>The authority of the <b>principal agent</b> to issue <b>contract instructions</b> [17.1] and perform duties for specific aspects of the <b>works</b> is delegated to <b>agents</b> as follows [6.2]. This does not preclude the <b>principal agent</b> from issuing such <b>contract instructions</b>:</p> <p><i>Delegated authority as may be required for other relevant consultants not listed hereinafter</i></p> <p>1. <u>Architect</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>1.1 Duties [6.2] :</p> <p>The architect is responsible for the architectural design, functional design and quality inspection of the <b>works</b></p> <p>1.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>1.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p>	Item	
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	<b>Brought Forward</b>	R	
1.2.3	The <b>site</b> [13.0]		
1.2.4	Compliance with the <b>law</b> , regulations and bylaws [2.1]		
1.2.5	Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>		
1.2.6	Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
1.2.7	Removal or re-execution of work		
1.2.8	Removal or substitution of any <b>materials and goods</b>		
1.2.9	Protection of the <b>works</b>		
1.2.10	Making good physical loss and repairing damage to the <b>works</b> [23.2.2]		
1.2.11	Rectification of <b>defects</b> [21.2]		
1.2.12	A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>		
1.2.13	Expenditure of <b>budgetary allowances, prime cost amounts</b> and <b>provisional sums</b>		
1.2.14	Appointment of a <b>subcontractor</b> [14.0; 15.0]		
1.2.15	Work by <b>direct contractors</b> [16.0]		
1.2.16	On suspension or termination, protection of the <b>works</b> , removal of <b>construction equipment</b> and surplus <b>materials and goods</b> [29.0] ?		
2.	<u>Quantity surveyor</u>		
2.1	Duties [6.2] :		
	The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the <b>works</b>		
2.2	<b>Contract instructions</b> [6.2; 17.1] :		
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	<b>Brought Forward</b>	<b>R</b>
<p>2.2.1 No <b>contract instructions</b> delegated to the quantity surveyor</p> <p>3. <u>Civil and structural engineer</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>3.1 Duties [6.2] :</p> <p>The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the <b>works</b></p> <p>4. <u>Mechanical engineer</u></p> <p><i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i></p> <p>4.1 Duties [6.2] :</p> <p>The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions</p> <p>4.2 <b>Contract instructions</b> [6.2; 17.1] :</p> <p>4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement</p> <p>4.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b></p> <p>4.2.3 Compliance with the <b>law</b>, regulations and bylaws [2.1]</p> <p>4.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b></p> <p>4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]</p> <p>4.2.6 Removal or re-execution of work</p>		
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b></p>		<b>R</b>

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	<b>Brought Forward</b>	R
4.2.7 Removal or substitution of any <b>materials and goods</b>		
4.2.8 Protection of the <b>works</b>		
4.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]		
4.2.10 Rectification of <b>defects</b> [21.2]		
4.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>		
4.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b> ?		
5. <u>Electrical engineer</u>		
<i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i>		
5.1 Duties [6.2] :		
The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the <b>works</b> and, where appointed by the <b>employer</b> for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions		
5.2 <b>Contract instructions</b> [6.2; 17.1] :		
5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the <b>agreement</b> other than in the <b>JBCC</b> Principal Building Agreement		
5.2.2 Alteration to design, standards or quantity of the <b>works</b> provided that such <b>contract instructions</b> shall not substantially change the scope of the <b>works</b>		
5.2.3 Compliance with the <b>law</b> , regulations and bylaws [2.1]		
5.2.4 Provision and testing of samples of <b>materials and goods</b> and/or of finishes and assemblies of elements of the <b>works</b>		
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	<b>Brought Forward</b>	R
5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]		
5.2.6 Removal or re-execution of work		
5.2.7 Removal or substitution of any <b>materials and goods</b>		
5.2.8 Protection of the <b>works</b>		
5.2.9 Making good physical loss and repairing damage to the <b>works</b> [23.2.2]		
5.2.10 Rectification of <b>defects</b> [21.2]		
5.2.11 A <b>list for practical completion</b> specifying outstanding or defective work to be rectified to achieve <b>practical completion</b> , a <b>list for completion</b> and a <b>list for final completion</b> specifying outstanding or defective work to be rectified to achieve <b>final completion</b>		
5.2.12 Expenditure of <b>budgetary allowances, prime cost amounts and provisional sums</b> ?		
6. <u>Wet services engineer</u>		
<i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i>		
7. <u>Fire consultant</u>		
<i>Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA</i>		
8. <u>Health and safety consultant</u>		
8.1 Duties [6.2] :		
The health and safety consultant is responsible for all aspects of health and safety of the <b>works</b> . Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the <b>works</b> . He shall:		
8.1.1 Act as the <b>employer's agent</b> in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended		
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8.1.2	Prepare and update the health and safety specification for the <b>works</b>		
8.1.3	Agree with the <b>contractor</b> the health and safety plan for the <b>works</b>		
8.1.4	Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations		
8.1.5	Stop the execution of the <b>works</b> where the agreed specification or plan is not adhered to?		
	F:..... V:..... T:.....	Item	
7	Clause 7.0 - Design responsibility		
	F:..... V:..... T:.....	Item	
	<b><u>Insurances and securities (A8-A11)</u></b>		
8	Clause 8.0 - <b>Works</b> risk		
	F:..... V:..... T:.....	Item	
9	Clause 9.0 - Indemnities		
	F:..... V:..... T:.....	Item	
10	Clause 10.0 - Insurances		
	F:..... V:..... T:.....	Item	
11	Clause 11.0 - <b>Securities</b>		
	<i>If it is deemed advisable, the <u>extent</u> of any guarantee for payment may be stated and whether it is required of the contractor to waive his lien. Edit the following clause:</i>		
	<b>Guarantee for payment</b>		
	The <b>employer</b> shall provide to the <b>contractor</b> a <b>guarantee for payment</b> in the amount of 0.00 Rand (R.....) [11.5.1]. The <b>contractor</b> shall consequently waive his lien or right of continuing possession of the <b>works</b> [11.10]		
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	<b>Brought Forward</b>	<b>R</b>	
	<p><i>Where it is expected of the contractor to waive his lien in terms of clause 11.10, the waiver of lien may be extended to subcontracts as follows:</i></p> <p><b>Extension of waiver of lien</b></p> <p>The <b>contractor</b> shall ensure that a waiver of lien is included in all subcontracts and that the <b>works</b> executed on the <b>site</b> are kept free of all liens and other encumbrances at all times [11.10]</p> <p>F:..... V:..... T:.....</p> <p><b>Execution (A12 - A17)</b></p>	Item	
12	<p>Clause 12.0 - Obligations of the <b>parties</b></p> <p><b>Office accommodation</b></p> <p>The <b>contractor</b> shall provide, maintain and remove on <b>practical completion</b> air conditioned office accommodation with suitable tables and chairs for meetings to be held on the <b>site</b>. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p><b>Notice board</b></p> <p>The <b>contractor</b> shall erect in a position approved by the <b>principal agent</b>, maintain and remove on <b>practical completion</b> a notice board recommended by the South African Institute of Architects and as approved by the <b>principal agent</b> listing the names and logos of the <b>employer</b>, the <b>contractor</b> and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the <b>principal agent</b> for such notice boards to be erected [12.2.18]</p> <p><b>Statutory and other notices</b></p> <p>The <b>contractor</b> shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the <b>works</b> by the <b>contractor</b>. The <b>contractor</b> shall pay all deposits or fees in this regard</p> <p>It is, however, specifically recorded that the <b>employer</b> shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried Forward</b>	<b>R</b>	
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13	<p>Clause 13.0 - Setting out</p> <p>F:..... V:..... T:.....</p>		Item	
14	<p>Clause 14.0 - Nominated <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>		Item	
15	<p>Clause 15.0 - Selected <b>subcontractors</b></p> <p>F:..... V:..... T:.....</p>		Item	
16	<p>Clause 16.0 - <b>Direct contractors</b></p> <p><b>Attendance on direct contractors</b></p> <p>In respect of <b>direct contractors</b> the <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Designate an area for the <b>direct contractor</b> to establish a temporary office and workshop and storage of equipment and materials</li> <li>2. Allow the use of personnel welfare facilities, where provided</li> <li>3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation</li> <li>4. Permit the <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b>, in common with others having the like right, while it remains erected on the <b>site</b> [16.1]</li> </ol> <p>F:..... V:..... T:.....</p>		Item	
17	<p>Clause 17.0 - <b>Contract instructions</b></p> <p><b>Site instructions</b></p> <p>Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b>.</p> <p>F:..... V:..... T:.....</p>		Item	
		<b>Carried Forward</b>	R	
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	<b><u>Completion (A18 - A24)</u></b>			
18	Clause 18.0 - Interim completion		N/A	
19	Clause 19.0 - <b>Practical completion</b> F:..... V:..... T:.....		Item	
20	Clause 20.0 - Completion in <b>sections</b> F:..... V:..... T:.....		Item	
21	Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b> F:..... V:..... T:.....		Item	
22	Clause 22.0 - <b>Latent defects</b> liability period F:..... V:..... T:.....		Item	
23	Clause 23.0 - Revision of the date for <b>practical completion</b>  <b>Substitution of materials and goods</b>  The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 & 2]  F:..... V:..... T:.....		Item	
24	Clause 24.0 - <b>Penalty</b> for late or non-completion F:..... V:..... T:.....		Item	
	<b><u>Payment (A25 - A27)</u></b>			
25	Clause 25.0 - Payment			
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	<b>Brought Forward</b>	<b>R</b>	
	<p><b>Prices submitted</b></p> <p>Where prices are submitted by the <b>contractor</b> or <b>subcontractor</b> during the progress of the <b>works</b> in respect of <b>contract instructions</b> or in regard to a claim under the terms of this <b>agreement</b> and notwithstanding the fact that such prices may be used in an interim <b>payment certificate</b>, there is to be no presumption of acceptance. Should the <b>principal agent</b> wish to accept any such prices prior to the issue of the <b>certificate of final completion</b>, it shall be in writing</p> <p>F:..... V:..... T:.....</p>		
26	<p>Clause 26.0 - Adjustment of the <b>contract value</b> and <b>final account</b></p> <p><b>Fluctuations in costs</b></p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the <b>contractor</b> [26.9.5]</p> <p><b>Tenant installation/user requirements delayed</b></p> <p>There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to <b>practical completion</b></p> <p>Should the <b>contractor</b> be instructed to do so he shall execute this work under the conditions pertaining to this <b>agreement</b> on the basis that a separate amount for <b>preliminaries</b> appurtenant to this work (if applicable) is agreed to between the <b>contractor</b> and the <b>principal agent</b> and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of <b>practical completion</b> of the <b>works</b></p> <p>The <b>employer</b> reserves the right to omit such work without compensation to the <b>contractor</b> for loss of profit or any other loss which the <b>contractor</b> may suffer as a result of such omission ?</p> <p><b>Cost of claims</b></p> <p>All costs incurred by the <b>contractor</b> in the preparation of claims shall be borne by the <b>contractor</b>. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this <b>agreement</b> [30.6 &amp; 7] from making a determination on costs</p>	Item	
	<b>Carried Forward</b>	<b>R</b>	
	<p>Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b></p>		

# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

	Brought Forward	R	
	<b>Claims from subcontractors</b>  The <b>contractor</b> shall review, assess and adjudicate any claims received by him from any <b>subcontractor</b> and thereafter submit same to the <b>principal agent</b> with a recommendation in order to assist the <b>principal agent</b> in adjudicating the claim [26.6]  F:..... V:..... T:.....  Clause 27.0 - Recovery of expense and/or loss  F:..... V:..... T:.....	Item	
27			
	<b>Suspension and termination (A28 - A29)</b>  Clause 28.0 - Suspension by the <b>contractor</b>  F:..... V:..... T:.....  Clause 29.0 - Termination  F:..... V:..... T:.....	Item	
28			
29			
	<b>Dispute resolution (A30)</b>  Clause 30.0 - Dispute resolution  F:..... V:..... T:.....	Item	
30			
31	<b>Agreement</b>  The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b>  F:..... V:..... T:.....	Item	
	<b>Contract data</b>  <i>Insert under the above heading, with suitable sub-headings, any amendments, modifications, corrections or supplements to the contract data</i>  <b>Tenderer's selections</b>		
32			
	Carried Forward	R	
	Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b>		

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
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	<b>Brought Forward</b>	R	
	Before submission of his tender the <b>contractor</b> is to complete the tenderer's selections in the <b>contract data</b>		
	F:..... V:..... T:.....	Item	
	<b><u>SECTION B: GENERAL PRELIMINARIES</u></b>		
	<i>Amendments, modifications, corrections or supplements to the General Preliminaries in Section B should be recorded in the contract data</i>		
	<i>Should it be necessary to expand on any of the General Preliminaries clauses, the user should list the appropriate General Preliminary clause number and heading and insert the relevant provision under a suitable heading in bold as may be necessary</i>		
	<b><u>Definitions and interpretation (B1)</u></b>		
33	Clause 1.1 - Definitions		
	F:..... V:..... T:.....	Item	
34	Clause 1.2 - Interpretation		
	F:..... V:..... T:.....	Item	
	<b><u>Documents (B2)</u></b>		
35	Clause 2.1 - Checking of documents		
	F:..... V:..... T:.....	Item	
36	Clause 2.2 - Provisional <b>bills of quantities</b>		
	<i>Check "wet trades" included in the bills of quantities and edit the following clause as may be necessary</i>		
	<b>Multiple procurement</b>		
	These <b>bills of quantities</b> are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are <b>budgetary allowances</b> and/or <b>provisional sums</b>		
	F:..... V:..... T:.....	Item	
	<b>Carried Forward</b>	R	
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		<b>Brought Forward</b>	R	
37	Clause 2.3 - Availability of <b>construction information</b> F:..... V:..... T:.....		Item	
38	Clause 2.4 - Ordering of <b>materials and goods</b> F:..... V:..... T:.....		Item	
	<b><u>Previous work and adjoining properties (B3)</u></b>			
39	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....		Item	
40	Clause 3.2 - Previous work - <b>defects</b> F:..... V:..... T:.....		Item	
41	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....		Item	
	<b><u>The site (B4)</u></b>			
42	Clause 4.1 - Handover of <b>site</b> in stages F:..... V:..... T:.....		Item	
43	Clause 4.2 - Enclosure of the <b>works</b> F:..... V:..... T:.....		Item	
44	Clause 4.3 - Geotechnical and other investigations F:..... V:..... T:.....		Item	
45	Clause 4.4 - Encroachments F:..... V:..... T:.....		Item	
46	Clause 4.5 - Existing premises occupied F:..... V:..... T:.....		Item	
		<b>Carried Forward</b>	R	
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		<b>Brought Forward</b>	R	
47	Clause 4.6 - Services - known F:..... V:..... T:.....		Item	
	<b><u>Management of contract (B5)</u></b>			
48	Clause 5.1 - Management of the <b>works</b> F:..... V:..... T:.....		Item	
49	Clause 5.2 - Progress meetings F:..... V:..... T:.....		Item	
50	Clause 5.3 - Technical meetings F:..... V:..... T:.....		Item	
	<b><u>Samples, shop drawings and manufacturer's instructions (B6)</u></b>			
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....		Item	
52	Clause 6.2 - Workmanship samples F:..... V:..... T:.....		Item	
53	Clause 6.3 - Shop drawings F:..... V:..... T:.....		Item	
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....		Item	
	<b><u>Deposits and fees (B7)</u></b>			
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....		Item	
		<b>Carried Forward</b>	R	
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		Brought Forward	R
<b><u>Temporary services (B8)</u></b>			
56	Clause 8.1 - Water		
	F:..... V:..... T:.....		Item
57	Clause 8.2 - Electricity		
	F:..... V:..... T:.....		Item
58	Clause 8.3 - Ablution and welfare facilities		
	F:..... V:..... T:.....		Item
59	Clause 8.4 - Communication facilities		
	F:..... V:..... T:.....		Item
<b><u>Prime cost amounts (B9)</u></b>			
60	Clause 9.1 - Responsibility for <b>prime cost amounts</b>		
	<p><i>Where details of materials included in prime cost amounts <u>are not</u> readily available and it is therefore not possible for the contractor to price for waste, the relevant prime cost amount shall be inserted in the bills of quantities as a lump sum with the contractor being given the opportunity to separately price his overheads and profit and for taking delivery, etc as called for in this clause 9.1 of the preliminaries. In such case the fixing only or installation only of the relevant materials shall be provisionally measured for the contractor to price and shall be re-measured upon completion</i></p> <p><i>Where details of materials for which prime cost amounts are to be allowed <u>are</u> readily available, the quantity surveyor may elect to insert the relevant prime cost amounts in measured items, which measured items shall contain sufficient detail for the contractor to price for fixing and installation, waste, etc</i></p>		
	F:..... V:..... T:.....		Item
		Carried Forward	R
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		<b>Brought Forward</b>	<b>R</b>	
	<b><u>Attendance on subcontractors (B10)</u></b>			
61	Clause 10.1 - General attendance			
	<b><u>User note</u></b>			
	<i>General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement</i>			
	F:..... V:..... T:.....		Item	
62	Clause 10.2 - Special attendance			
	<i>It is important to note that general attendance only requires the contractor to "permit the subcontractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill</i>			
	F:..... V:..... T:.....		Item	
	<b><u>General (B11)</u></b>			
63	Clause 11.1 - Protection of the <b>works</b>			
	F:..... V:..... T:.....		Item	
64	Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b>			
	F:..... V:..... T:.....		Item	
65	Clause 11.3 - Security of the <b>works</b>			
	F:..... V:..... T:.....		Item	
66	Clause 11.4 - Notice before covering work			
	F:..... V:..... T:.....		Item	
67	Clause 11.5 - Disturbance			
		<b>Carried Forward</b>	<b>R</b>	
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	<b>Brought Forward</b>	<b>R</b>	
	<b>Disturbance</b>		
	All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the <b>construction period</b> or <b>contract value</b> whatsoever		
	F:..... V:..... T:.....	Item	
68	Clause 11.6 - Environmental disturbance		
	<b>Controlling all forms of pollution</b>		
	The <b>contractor</b> shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the <b>site</b> during the <b>construction period</b> due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc		
	The <b>contractor</b> is to ensure that all roads which border the <b>site</b> and are used by the <b>contractor</b> during the execution of the <b>works</b> are kept clean and free of any dirt or debris caused by the execution of the <b>works</b>		
	<i>Insert the following clause if an environmental management plan (EMP) is available and insert the EMP in an annexure</i>		
	<b>Environmental management plan</b>		
	The <b>employer</b> has not prepared an environmental management plan (EMP). The <b>contractor</b> shall not price opposite this item for compliance with all the requirements of such EMP		
	F:..... V:..... T:.....	Item	
69	Clause 11.7 - <b>Works</b> cleaning and clearing		
	F:..... V:..... T:.....	Item	
70	Clause 11.8 - Vermin		
	F:..... V:..... T:.....	Item	
	<b>Carried Forward</b>	<b>R</b>	
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		Brought Forward	R	
71	<p>Clause 11.9 - Overhand work</p> <p>F:..... V:..... T:.....</p>		Item	
72	<p>Clause 11.10 - Tenant installations</p> <p>F:..... V:..... T:.....</p>		Item	
73	<p>Clause 11.11 - Advertising</p> <p>F:..... V:..... T:.....</p>		Item	
	<b><u>SECTION C: SPECIFIC PRELIMINARIES</u></b>			
74	<p>Warranties for materials and workmanship</p> <p>Where warranties for materials and/or workmanship are called for, the <b>contractor</b> shall obtain a written warranty, addressed to the <b>employer</b>, from the entity supplying the materials and/or executing the work and shall deliver same to the <b>principal agent</b> on <b>final completion</b> of the contract</p> <p>The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of <b>practical completion</b> and that any <b>defects</b> that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written <b>notice</b> to do so</p> <p>The warranty will not be enforced if the work is damaged by <b>defects</b> in the execution of the <b>works</b>, in which case the responsibility for replacement shall rest entirely with the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>		Item	
75	<p>Overtime</p> <p>Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the <b>contractor</b> unless the <b>principal agent</b> has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the <b>employer</b></p> <p>F:..... V:..... T:.....</p>		Item	
		Carried Forward	R	
	<p>Section No. 1 : Preliminaries and General</p> <p><b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b></p> <p><b>ZA-ENG CONSULTING</b></p>			

**REPAIRS AND RENOVATIONS TO  
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	<b>Brought Forward</b>	R	
76	<p>Cooperation of the <b>contractor</b> for cost management</p> <p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the <b>contract value</b> does not exceed the budget</p> <p>F:..... V:..... T:.....</p>	Item	
77	<p>Overloading</p> <p>The <b>contractor</b> shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the <b>works</b> or temporary works eg scaffolding, etc. The <b>contractor</b> shall submit details of his proposed loading, storage, plant erection, etc to the <b>principal agent</b> for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the <b>principal agent's</b> requirements in connection with the provision of temporary support work, etc. Any damage caused to the <b>works</b> by overloading shall be made good by the <b>contractor</b> at his sole expense</p> <p>F:..... V:..... T:.....</p>	Item	
78	<p>Propping of floors below</p> <p>The <b>contractor</b> is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of <b>materials and goods</b> and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the <b>principal agent</b> and the cost thereof shall be borne by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item	
79	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p>	Item	
80	<p>Health and safety</p>		
	<b>Carried Forward</b>	R	
	<p>Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b></p>		

**REPAIRS AND RENOVATIONS TO  
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<p style="text-align: right;"><b>Brought Forward</b></p> <p>Without limiting the generality of the provisions of clause 2.0, the <b>contractor's</b> attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the <b>employer</b> shall prepare a documented health and safety specification for the <b>works</b> and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the <b>works</b>. The <b>contractor</b> shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1]</p> <p>Health and safety</p> <p>Without limiting the generality of the provisions of clause 2.0, the <b>contractor's</b> attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. It is specifically stated that the <b>employer</b> shall prepare a documented health and safety specification for the <b>works</b> (refer to Annexure ? for a copy of the relevant specification) and that the <b>employer</b> shall ensure that the <b>contractor</b> has made provision for the cost of health and safety measures during the execution of the <b>works</b>. The <b>contractor</b> shall price opposite this item for compliance with the act and the regulations and the provisions of the aforementioned health and safety specification [2.1]</p> <p>The <b>contractor</b> shall:</p> <ol style="list-style-type: none"> <li>1. Comply with the health and safety specification for the <b>works</b></li> <li>2. Prepare and agree with the health and safety consultant the health and safety plan for the <b>works</b></li> <li>3. Cooperate with the health and safety consultant in all respects</li> <li>4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification</li> <li>5. Conform to the conditions contained in the <b>employer's</b> health and safety specification</li> </ol> <p>F:..... V:..... T:.....</p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b></p>	<p style="text-align: center;">R</p> <p style="text-align: center;">Item</p> <p style="text-align: center;">R</p>	
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**REPAIRS AND RENOVATIONS TO  
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	<b>Brought Forward</b>	<b>R</b>	
81	<p>Broad based black economic empowerment (BBBEE)</p> <p>Tenders submitted will be evaluated taking into account their empowerment rating</p> <p>The <b>employer</b> will be monitoring the broad based black economic empowerment (BBBEE) status of the <b>contractor</b> throughout the execution of the <b>works</b></p> <p>The <b>contractor</b> is to submit to the <b>principal agent</b> on an annual basis a schedule of spend, split into vendors engaged as <b>subcontractors</b> and suppliers indicating their BBBEE rating including proof of the said rating</p> <p>F:..... V:..... T:.....</p>	Item	
82	<p>Advertising rights</p> <p>The <b>employer</b> may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The <b>contractor</b> shall not prevent such an arrangement and will assist in the facilitation of same. The position and type of advertising structure to be agreed with the <b>principal agent</b> so as not to hinder the <b>contractor</b> in meeting his obligations under this <b>agreement</b></p> <p>F:..... V:..... T:.....</p>	Item	
83	<p>Confidentiality</p> <p>The <b>contractor</b> undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all <b>subcontractors</b> and suppliers. Such information shall not be used in any way except in connection with the execution of the <b>works</b></p> <p>No information regarding this project shall be published or disclosed without the prior written consent of the <b>employer</b></p> <p>F:..... V:..... T:.....</p>	Item	
	<b>Carried Forward</b>	<b>R</b>	
	<p>Section No. 1 : Preliminaries and General</p> <p><b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b></p> <p><b>ZA-ENG CONSULTING</b></p>		

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84	<p style="text-align: right;"><b>Brought Forward</b></p>	R	
	<p>Media releases</p> <p>All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the <b>employer</b></p> <p>The <b>contractor</b> together with his <b>subcontractors</b> shall not, without the prior written consent of the <b>employer</b>, cause any statement or advertisement connected with this project to be printed, screened or aired by the media</p> <p>F:..... V:.....T:.....</p> <p><b><u>SUMMARY OF CATEGORIES</u></b></p> <p>Category : Fixed R.....</p> <p>Category : Value R.....</p> <p>Category : Time R.....</p>	Item	
	<p style="text-align: right;"><b>Carried to Final Summary</b></p>	R	
	<p>Section No. 1 : Preliminaries and General <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b></p>		

# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No	Quantity	Rate	Amount
<p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.</p> <p><b><u>SUPPLEMENTARY PREAMBLES</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>			
		R	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No.2 : Building Works  <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b>  <b>ZA-ENG CONSULTING</b></p>			

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PROVISIONAL BILLS OF QUANTITIES**

<b>Brought Forward</b>	R
<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>The Contractor shall allow within his rates for demolition items for the removal of all debris and rubble to the dumping site to be located by the contractor. All tenderers are required to visit the site and acquaint themselves as to the exact nature and extent of the works described here after. No claim due to the lack knowledge on the part of the Contractor will be entertained.</u></b></p>	
<b>Carried Forward</b>	R
<p>Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b></p>	

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

Brought Forward			R
<b><u>REMOVAL OF EXISTING WORK</u></b>			
<b><u>Breaking down and removing brickwork etc</u></b>			
1	One brick wall	m2	34
<b><u>Taking out and removing doors, windows, etc including thresholds, sills, etc</u></b>			
2	Timber single door and steel frame 813 x 2032mm high overall from 230mm brick wall	No	1
3	Timber double door and steel frame 1600 x 2032mm high overall from 230mm brick wall	No	4
<b><u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u></b>			
4	Gypsum plasterboard ceilings including cornices,etc (walkways and eaves closures/ roof overhangs)	m2	182
5	Gypsum plasterboard ceilings including cornices,etc (veranda and ablutions)	m2	68
6	Ceilings suspended not exceeding 1m below steel trusses ( training room 1, 3 and 4 )	m2	121
7	Gypsum plasterboard ceilings including cornices,etc (first floor)	m2	61
8	Clay tiles roof covering	m2	300
<b><u>Taking out and removing sundry joinery work</u></b>			
9	10 x 225 mm fibre cement fascia and barge board	m	50
<b><u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc</u></b>			
10	30mm Screeds	m2	85
Carried Forward			R
Section No.2 : Building Works AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING			

# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Brought Forward			R
11	Tiles to floors	m2	52
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>			
<b><u>Making good internal cement plaster</u></b>			
12	Apply flex gap sealant to cracks on dry wall and brick wall connection and paint including making good affected areas	m2	56
<b><u>Making good existing carpets</u></b>			
13	Remove, clean and re glue existing carpet tiles including preparing screed for floor covering	m2	446
<b><u>ROOF REPAIRS</u></b>			
<b><u>Repairs to existing roof covering</u></b>			
14	Prepare existing clay roof tiles by priming waterproof roof using bitumen rubber flex waterproofing paint and membrane, reseal ridges and replace damaged or cracked tiles.	m2	600
<b><u>BUILDING UP OPENINGS</u></b>			
<b><u>Brickwork in NFP bricks in class II mortar in building up openings</u></b>			
15	One brick walls in patches	m2	34
<b><u>External face bricks to match existing or equal approved pointed with recessed horizontal and vertical joints to match existing.</u></b>			
16	Extra over brickwork for face brickwork	m2	34
Carried Forward to Summary of Section No. 2			R
Section No.2 : Building Works			
AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)			
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## REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 2</u></b>			
	<b><u>CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the sepearate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<b><u>MOVEMENT JOINTS ETC</u></b>			
	<b><u>Expansion joints with 20mm softboard between vertical concrete surfaces</u></b>			
1	Slabs not exceeding 300mm thick	m	11	
	<b><u>Isolation joints</u></b>			
2	10 x 12mm, 2 parts polysulphide sealant including bond breaker	m	11	
	<b><u>Saw cut joints</u></b>			
3	10 x 100mm Construction joint on top of concrete	m	11	
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No.2 : Building Works			
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	<b>ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 3</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<b><u>Waterproofing</u></b>			
	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>WATERPROOFING TO ROOFS ETC</u></b>			
	<u>One layer Derbigum SP4 waterproofing membrane, with 75mm side laps and 100mm end laps, sealed to primed surface to falls and crossfalls by 'torch-fusion' finished with two coats bituminous aluminum paint. Waterproofing to be installed by an Approved Derbigum Contractor under a ten year guarantee or equally approved.</u>			
1	On flat roofs	m2	20	
2	On turn-ups and turn-downs exceeding 300mm girth	m2	15	
	<b><u>JOINT SEALANTS ETC</u></b>			
	<b><u>Clear silicone sealer</u></b>			
3	In joints between worktops and sanitary fittings, etc	m	15	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No.2 : Building Works			
	<b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b>			
	<b>ZA-ENG CONSULTING</b>			



# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 4</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<i>The fixing recommendations of the manufacturer of the tiles used for the specific region and/or situation are to be incorporated as supplementary preambles</i>			
	<b><u>TILES</u></b>			
	<u>Match existing clay tiles to be installed in accordance with the manufacturers guidelines, including Resin-coated Polybase and Polymat (Glass reinforced Plastic) on 18mm plywood, on 200mm thermal insulation on a continuous water proofing membrane</u>			
1	Roof covering with pitches not exceeding 25 degrees	m2	300	
2	Ridge tiles to match roofing tiles bedded and pointed in 1:3 cement mortar tinted to match tile colour	m	50	
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 5</u></b>			
	<b><u>CARPENTRY AND JOINERY</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<b><u>EAVES, VERGES, ETC</u></b>			
	<b><u>FACIAS, BARGE BOARDS, ETC:</u></b>			
	<b><u>"Nutec" fibre cement fascia board</u></b>			
1	12 x 225 mm Fibre cement fascia drilled and brass screwed and including steel jointing strips between lengths.	m	50	
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 6</u></b>			
	<b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or methods of similar quality may be used with prior approval from the Principal Agent.			
	<b><u>Descriptions:</u></b>			
	Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete			
	Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere			
	Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)			
	<b>Carried Forward</b>		R	
	Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

Brought Forward			R
<b><u>SUSPENDED CEILINGS</u></b>			
<b><u>"Ceiling system should be gasketed to ensure air tightness under negative pressure. The edges of the panels is required to be sealed off with a soft rubber or foam gasket."</u></b>			
<b><u>Acoustic ceiling panels to match existing on exposed suspension grid system including hangers, necessary hold-down clips and wedges, etc</u></b>			
1	Ceilings suspended not exceeding 1m below steel trusses	m2	121
<b><u>6.4mm "Rhino" gypsum plasterboard with "Bischoff" H-type pressed steel jointing strips</u></b>			
2	Ceilings including suspension system at 600mm centres	m2	129
<b><u>CORNICES</u></b>			
3	75mm Coved cornices	m	80
<b><u>SUSPENDED CEILINGS</u></b>			
<b><u>Ceiling boards with galvanized flat sheet 0.5 mm fixed to 25 x 25mm galvanised angle iron and cross/main tees fixed to existing steel purlins</u></b>			
4	Ceilings including suspension system at 600mm centres	m2	182
<b><u>PARTITIONS ETC</u></b>			
<b><u>Retractable soundproof partitions with bottom track plugged and top track fixed to suspended ceiling tees</u></b>			
5	Install aluminium door sliding track under partitioning boards to flash with finish floor level and install aluminium track wheels 2 per each board unto the partitioning boards underside and allow for fittings and existing floor cutting and make good	m	45
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No.2 : Building Works			
<b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b>			
<b>ZA-ENG CONSULTING</b>			

# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 7</u></b>			
<b><u>METALWORK</u></b>			
<b><u>PREAMBLES</u></b>			
NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Descriptions</u></b>			
Descriptions of bolts shall be deemed to include nuts and washers			
Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete			
Metalwork described as"holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described			
<b><u>WELDED SCREENS, GATES, ETC</u></b>			
<b><u>SECURITY GATES</u></b>			
<b><u>Steel security gates, screens, etc. installed complete including all subframes, bolts, expansion bolts, etc, as per the attached door schedule</u></b>			
1	Steel security double gate to door size 1600 x 2125mm high	No	1
<b><u>ALUMINIUM DOORS</u></b>			
<b>Carried Forward</b>			R
Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

Brought Forward			R
<b><u>Powder coated aluminium doors manufactured from approved aluminium profiles to Architect's approval; Intruder proof glazing SABS approved double glazed panels in clear or obscure glass, sealed with silicone and internally to take plaster reveal, plugged to brickwork or concrete. All frames are to come complete with Ironmongery as per Architect's specifications.</u></b>			
2	Aluminium double door 1800 x 2125mm high	No	4
3	Aluminium single door 900 x 2125mm high	No	1
<b>Carried Forward to Summary of Section No. 2</b> Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b>			R

# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 8</u></b>			
<b><u>PLASTERING</u></b>			
<b><u>PREAMBLES</u></b>			
NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
<u>Method</u>			
The method to be used shall be either the monolithic method or the bonded method			
<u>Preparation</u>			
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			
<u>Mix</u>			
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			
<b><u>SCREEDS</u></b>			
<b>Carried Forward</b>			R
Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)</b> <b>ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

[illegible]



# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 2</u></b>			
<b><u>BILL NO. 9</u></b>			
<b><u>TILING</u></b>			
<b><u>PREAMBLES</u></b>			
NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
<b><u>Descriptions</u></b>			
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			
<b><u>FLOOR TILING</u></b>			
<b><u>350 x 350mm ceramic floor tiles to match existing (PC R250/m²) fixed with 'Tylon' Code:CN 12 adhesive to screed (screed elsewhere) and flush pointed with 'Tylon' Code CE 235 Acid Resistant tiling grout</u></b>			
1	On floors	m2	52
2	Cut tile skirting 100mm high	m	20
Carried Forward to Summary of Section No. 2			R
Section No.2 : Building Works			
AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)			
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**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 10</u></b>			
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<u>General</u>			
	Descriptions of WC pans, slop hoppers, etc 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>RAINWATER DISPOSAL</u></b>			
	<b><u>0,6 mm Galvanized sheet iron rainwater goods:</u></b>			
1	100 X 125mm Rectangular section eaves gutter with 20mm wide overlapping joints	m	44	
2	Extra over 100 x 125mm eaves gutter for stopped end.	No	6	
3	Extra over 100 x 76mm rainwater pipe with brackets fixed to brick wall or concrete.	m	36	
4	Extra over 100 x 76mm rainwater pipe for shoe.	No	6	
5	Extra over 100 x 76mm rainwater pipe for eaves or plinth offset 500mm projection.	No	6	
	<b>Carried Forward</b>		R	
	Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
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Brought Forward			R
<b><u>EXISTING SANITARY FITTINGS</u></b>			
<b><u>Overhaul, fix, clean, wash and leave in a satisfactory condition the following existing items of sanitaryware:</u></b>			
6	Vitreous china wash hand basin, flexi stop cocks, rubber trap, etc.	No 7	
7	Vitreous china WC suite and flushing mechanism including replacing damaged parts	No 13	
8	Vitreous china Urinal and flushing mechanism including replacing damaged parts	No 7	
<b><u>WASTE UNIONS, ETC.:</u></b>			
<b><u>"Cobra Watertech" or equal approved</u></b>			
9	32mm Basin waste union code 317 - 40	No 5	
10	40mm Urinal waste union.	No 4	
<b><u>TRAPS ETC</u></b>			
<b><u>"Cobra Watertech" or equal approved</u></b>			
11	32 x 50mm CP bottle trap, code 340	No 4	
12	40 x 50mm CP bottle trap	No 5	
<b><u>TAPS, VALVES, ETC.:</u></b>			
<b><u>"Cobra Watertech" or equal approved</u></b>			
13	Cobra 832/350F Angle Stop Valve and Flexi Connector	No 4	
14	"FJ 6.000 CP Flushmaster Junior" urinal flushing valve.	No 3	
15	15mm "FJT 5.5" CP urinal tail pipe.	No 3	
<b>Carried Forward to Summary of Section No. 2</b>			R
Section No.2 : Building Works			
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**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
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Item No	Quantity	Rate	Amount
<b><u>SECTION NO.2</u></b>			
<b><u>BILL NO. 11</u></b>			
<b><u>GLAZING</u></b>			
<b><u>PREAMBLES</u></b>			
NOTE: The Tenderer is referred to the relevant Clause in the seperate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC.:</u></b>			
<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></b>			
1	Mirror 600 x 500mm high with six screws.	No	1
Carried Forward to Summary of Section No. 2			R
Section No.2 : Building Works			
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**REPAIRS AND RENOVATIONS TO  
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Item No		Quantity	Rate	Amount
	<b><u>SECTION NO. 2</u></b>			
	<b><u>BILL NO. 12</u></b>			
	<b><u>PAINTWORK</u></b>			
	<b><u>PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2017 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	NOTE: The Tenderer is referred to the relevant Clause in the separate document "Model Preambles for Trades" (2008 Edition) and to the Supplementary Preambles which are incorporated hereunder.			
	<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>Carried Forward</b>		R	
	Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b>			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

<b>Brought Forward</b>				R
<b><u>PAINT SPECIFICATIONS</u></b>				
All painting shall be done in accordance with specifications unless otherwise described				
<b><u>COLOURS</u></b>				
Unless otherwise described paintwork on ceilings shall be deemed to be in the "White" colour group and paintwork on all other components shall be deemed to be in the "Pastel" colour group in accordance with the Natural Colour System (NCS) adopted by the SA National Standards				
<b><u>PAINTWORK TO EXISTING</u></b>				
<b><u>On plaster</u></b>				
<b><u>One coat "Duram" or equal approved alkaline resistant plaster primer, and two coats "Duram wall tech elegant low sheen" wall coating, colour : Balboa</u></b>				
1	On internal plastered walls	m2	34	
<b><u>On plaster board</u></b>				
<b><u>Apply one coat "Dulux" trade or equal approved alkali- resistant palster primer, finish the ceiling with 2 coats of "DULUX " bathroom, colour : white. All in strict accordance with manufactures specification &amp; requirements</u></b>				
2	Partitions	m2	336	
<b><u>PAINTWORK, ETC TO NEW WORK ON</u></b>				
<b><u>On plaster board</u></b>				
<b>Carried Forward</b>				R
Section No.2 : Building Works <b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b>				

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

	Brought Forward			R	
	<u>Apply one coat "Dulux" trade or equal approved alkali- resistant palster primer, finish the ceiling with 2 coats of "DULUX " bathroom, colour : white. All in strict accordance with manufactures specification &amp; requirements</u>				
3	On ceilings and cornices	m2	68		
	<u>Fascia and badge boards</u>				
	<u>One coat alkali resistant plaster primer and two coats PVA acrylic emulsion paint on</u>				
4	On fascia and bardge boards	m	50		
	<u>On Metal</u>				
	<u>One coat zinc chromate primer and applying one coat universal undercoat and two coats "Plascon" high gloss enamel paint or or similar approved paint on steel</u>				
5	On gates, grilles, burglar screens, balustrades, etc (both sides measured over full flat area)	m2	7		
6	Metal sheet ceilings	m2	182		
Carried Forward to Summary of Section No. 2				R	
Section No.2 : Building Works					
AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)					
ZA-ENG CONSULTING					

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

[illegible]



# REPAIRS AND RENOVATIONS TO ARC MULTI-PURPOSE TRAINING FACILITY PROVISIONAL BILLS OF QUANTITIES

Item No	Quantity	Rate	Amount
<b><u>SECTION NO. 3</u></b>			
<b><u>BILL NO. 1</u></b>			
<b><u>PROVISIONAL SUMS</u></b>			
<b><u>PREAMBLES</u></b>			
The following Provisional Sums and Prime Cost Items are net			
The Contractor shall allow for profit and attendance after each Provisional Sum. Where no allowance has been made by the Contractor, it shall be assumed the allowance shall have been included elsewhere in the rates for other works.			
Provide the following Provisional Sums for work to be executed and completed by the contractor as instructed by the Project Manager			
<b><u>REPAIR WORKS TO RETRACTABLE SOUNDPROOF PARTITIONING</u></b>			
1	Provide the sum of R65 000.00 (Sixty Five Thousand) as indicated above to be used as a whole or part of, as instructed and approved by the Project Manager	Item	65 000.00
2	Allow for profit	%	
3	Allow for attendance	%	
Carried to Final Summary			R
Section No.3 : Provisional Sums			
AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP)			
ZA-ENG CONSULTING			

**REPAIRS AND RENOVATIONS TO  
ARC MULTI-PURPOSE TRAINING FACILITY  
PROVISIONAL BILLS OF QUANTITIES**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Section No. 1 : Preliminaries and General	26	
2	Section No.2 : Building Works	48	
3	Section No.3 : Provisional Sums	49	
	SUB-TOTAL (Excluding Contingencies and Value Added Tax)		R
	Allow a Contingencies Amount at 5% of the above sub-total to be used at the discretion of the representative/Agent and deducted in whole or part if not required		R
	SUB-TOTAL including Contingencies , but excluding Value Added Tax (VAT)		R
	ADD: Value Added Tax (VAT) calculated at the rate of 15%		R
	Carried to Form of Tender		R
	<b>AGRICULTURAL RESEARCH COUNCIL (ARC - VIMP) ZA-ENG CONSULTING</b>		