

Item  
No

Quantity

Rate

Amount

**BILL NO 1**

**PRELIMINARIES**

**BUILDING AGREEMENT AND  
PRELIMINARIES**

The **JBCC** 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

The **JBCC** Principal Building Agreement **contract data** form an integral part of this **agreement**

The **JBCC** General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these **bills of quantities**, amended as hereinafter described

The **contractor** is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only

Where any item is not relevant to this **agreement** such item is marked N/A signifying "not applicable"

Where standard clauses or alternatives are not entirely applicable to this **agreement** 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 abovementioned documents

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**PREAMBLES FOR TRADES**

The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors ("ASAQS") shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said General Preambles will be entertained. Should the ASAQS retract the General Preambles for Trades 2017 then the Model Preambles for Trades 2008 edition as published by the ASAQS shall apply.

Supplementary preambles and/or specifications are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles

The **contractor's** prices for all items throughout these **bills of quantities** 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

**STRUCTURE OF THIS PRELIMINARIES BILL**

Section A : A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement

Section B : A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries

Section C : Any other special clauses required to meet the particular circumstances of the project

**PRICING OF PRELIMINARIES**

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, then the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

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If the amounts are not separated as such before the **agreement** is signed, then the total preliminaries amount (as per this bill) shall for adjustment purposes be split as follows: T = 60%, F = 25% and V = 15%.

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**Interpretation (A1-A7)**

1 Clause 1.0 - Definitions and interpretation

The definition of **DIRECT CONTRACTOR** deleted in its entirety and replaced with the following:

**"DIRECT CONTRACTOR:** An entity appointed under a separate agreement by the **employer**, or by any customer of the **employer**, to do work on **site** prior to **practical completion [CD]**"

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The definition of **PROGRAMME** deleted in its entirety and replaced with the following:

**"PROGRAMME:** A diagrammatic representation of the planned execution of the **works** (units of work, activities and milestone dates) indicating the dates for commencement and completion as well as the critical path, prepared by the **contractor** and supplied (in soft/electronic copy) to the **principal agent** for acceptance and inclusion to the **agreement** prior to signature thereof, which programme will thereafter be referred to as the baseline **programme**.

The **programme** shall be maintained by the **contractor** at all times during the **construction period**. The **programme** must be fully linked with neither open start nor open end date activities, must indicate all **working days** (and all non-**working days**) and must accurately record the actual progress of and/or any delays to the date(s) of **practical completion**.

Any changes to the baseline **programme**, which include but are not limited to resequencing of the **works**, are to be agreed to in writing by the **principal agent** prior to implementation thereof failing which the baseline **programme** will remain un-amended."

The work of **nominated** and **selected subcontractors** must be incorporated by mutual agreement on appointment of such into the **agreement** and adjusted by mutual agreement as the work progresses

The following clauses are added:

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"1.2.6 Pricing of bills of quantities

The **contractor** is to allow opposite each item for all costs in connection therewith.

All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (other than Value Added Tax), imposts, establishment charges, overheads, profit and all other obligations arising out of this **agreement**. Value Added Tax (VAT) is to be separately stated on the summary page of these **bills of quantities**.

Items left unpriced, or priced zero, will be deemed to be covered in prices against other items throughout these **bills of quantities** inclusive of this **preliminaries** bill and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained.

Prices for all **construction equipment**, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary."

"1.2.7 Abbreviated descriptions

The items in these **bills of quantities** 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 **contractor** shall, before submission of his tender, call for a written directive from the **principal agent**, failing which it shall be assumed that the **contractor** has allowed in his pricing for materials and workmanship in terms of international best practice."

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2 Clause 2.0 - **Law**, regulations and **notices**

Clause 2.4 is amended by inserting words "and/or **contract instructions**" after the word "**Notices**"

The following clauses are added:

"2.5 The **contractor** accepts that the **employer** appoints him as the Principal Contractor, as defined and provided for under the Construction Regulations 2014, promulgated under the Occupational Health and Safety Act 85 of 1993 ("the Construction Regulations").

The **contractor** undertakes in and about and in respect of the **works** to:

2.5.1 Comply with the Construction Regulations and with all applicable health, safety and environmental laws and regulations including any updates issued thereto at any time during the execution of the **works**;

2.5.2 Comply with all health & safety specifications, policies, rules, guidelines and procedures which have been issued and may still be issued by the **principal agent**, health and safety consultant, **employer** or its **agents**;

2.5.3 Ensure that his **subcontractors**, employees and others who work under the **contractor's** direction and control, observe and comply with the relevant Health & Safety legislation, regulations and/or measures (including the **employer's** specifications, requirements and measures);

2.5.4 Prepare and agree with the **employer**, **principal agent** and health and safety consultant the health and safety plan for the **works**;

2.5.5 Cooperate with the **employer**, **principal agent** and health and safety consultant in all respects;

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- 2.5.6 Conform to the conditions contained in, or added to, the health and safety specifications of the **employer** at any time during the execution of the **works**;
- 2.5.7 Comply with all regulations issued by any local and/or national authority, specifically but not limited to regulations or guidelines;
- 2.5.8 For the compilation of the **Contractor's** Health & Safety Plan, Safety Files, RAMS and the performance of any other Health & Safety related requirements, the **Contractor** shall employ or appoint a suitably qualified Health & Safety Agent, Officer and/or Manager who is/are registered in the appropriate category with the South African Council for the Project and Construction Management Professions ("SACPCMP"). If the **Contractor** does not have such persons internally, it shall appoint an external professional Health & Safety company for this purpose, and agrees to submit the relevant details of the proposed external company for approval by the **Employer** prior to making such appointment, this to ensure that an approved, suitable and qualified company is appointed.

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"2.6 Without limiting the generality of the provisions of clause 2.0, the **contractor's** attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended ("the OHS Act").

It is specifically stated that the **employer** shall prepare a documented health and safety specification for the **works** and that the **employer** shall ensure that the **contractor** has made provision for the cost of health and safety measures during the execution of the **works**.

The **contractor** shall price for this item for compliance with all legislation (including the OHS Act), Construction Regulations, specifications and including health and environmental (SHE) specifications, the **employer's** health and safety rules, requirements and specifications, which includes but are not limited to the following documents;

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3 Clause 3.0 - Offer and acceptance

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4 Clause 4.0 - Cession and assignment

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5 Clause 5.0 - Documents

The following words are included at the end of clause 5.6:

"All drawings for this project will be issued electronically and the **contractor** shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically."

The following new clause is added:

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"5.7 Value Added Tax ("VAT")

Provision is made in the summary page of these **bills of quantities** for the inclusion of VAT"

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6 **Clause 6.0 - Employer's agents**

The following words are included at the end of clause 6.2:

". The authority of the **principal agent** to issue **contract instructions** [17.1] and perform duties for specific aspects of the **works** are by **agreement** delegated to **agents** as follows [6.2]. This does not preclude the **principal agent** from issuing such **contract instructions** or from responsibility from the applicable services should the **employer** not employ the **agent(s)** as listed below:"

The following clauses are added:

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"6.2.1. Health and safety consultant

The health and safety consultant is responsible for all aspects of health and safety of the **works**. 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 **works**. He shall:

- Act as the **employer's agent** in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended;
- Prepare and update the health and safety specification for the **works**;
- Agree with the **contractor** the health and safety plan for the **works**;
- Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations;
- Issue **contract instructions** in respect of any health & safety related matter; and
- Stop any activity and/or the execution of the **works** where the agreed specification or plan is not adhered to and/or if there is reason to believe that any person might be harmed, injured, etc. should the execution of the **works** continue."

"6.2.2. Architect

The architect is responsible for the architectural design, functional design and quality inspection of the **works**. He may request the **principal agent** to issue **contract instructions** [17.1] on behalf of and perform any duty of the **principal agent** pertaining to relating to the following:

- Rectification of discrepancies, errors in description or quantity or omissions of items in this **agreement** other than in the **JBCC** Principal Building Agreement [17.1.1];
- Alteration to design, quality or quantity of

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the **works** provided that such **contract instructions** shall not substantially change the scope of the **works** [17.1.2];

- The **site** [13.0, 17.1.3];
- Compliance with the **law**, regulations and bylaws [2.1, 17.1.4];
- Provision and testing of samples of **materials and goods** and/or finishes or assemblies of elements of the **works** [17.1.5];
- Opening up of work for inspection, removal or re-execution [23.2.4, 26.4.2, 17.1.6];
- Removal or re-execution of work [17.1.7];
- Removal or substitution of any **materials and goods** [17.1.8];
- Protection of the works [17.1.9];
- Making good physical loss and repairing damage to the **works** [23.2.2, 17.1.10];
- Rectification of **defects** [21.2, 17.1.11];
- A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion** [17.1.12];
- Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** [17.1.13];
- Appointment of a **subcontractor** [14.0, 15.0, 17.1.14];
- Work by **direct contractors** [16.0, 17.1.16]; and
- On suspension or termination, protection of the **works**, removal of **construction equipment** and surplus **materials and goods** [28, 29, 17.1.20]"

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"6.2.3. Quantity Surveyor

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the **works** [6.2]. He may not issue any **contract instructions** [17.1] on behalf of the **principal agent**."

"6.2.4. Civil & Structural-, Mechanical- and/or Electrical Engineers

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the **works**.

The mechanical engineer is responsible for all aspects of mechanical- and fire engineering design and quality inspection of the **works** and, where appointed by the **employer** for quantity surveying services in respect of the mechanical- and fire services installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions.

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the **works** and, where appointed by the **employer** for quantity surveying services in respect of the electrical services installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions.

The above-mentioned Engineers may issue **contract instructions** [17.1] on behalf of and perform any duty [6.2] of the **principal agent** pertaining to relating to the following:

- Rectification of discrepancies, errors in description or quantity or omissions of items in this **agreement** other than in the **JBCC** Minor Works Agreement [17.1.1];
- Alteration to design, quality or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works** [17.1.2];

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- The **site** [13.0, 17.1.3];
- Compliance with the **law**, regulations and bylaws [2.1, 17.1.4];
- Provision and testing of samples of **materials and goods** and/or finishes or assemblies of elements of the **works** [17.1.5];
- Opening up of work for inspection, removal or re-execution [17.1.6];
- Removal or re-execution of work [17.1.7];
- Removal or substitution of any **materials and goods** [17.1.8];
- Protection of the works [17.1.9];
- Making good physical loss and repairing damage to the **works** [23.2.2, 17.1.10];
- Rectification of **defects** [21.1, 17.1.11];
- A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion** [17.1.12];
- Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** [17.1.13];
- Appointment of a **subcontractor** [14.0, 15.0, 17.1.14];
- Work by **direct contractors** [16.0, 17.1.16]; and
- On suspension or termination, protection of the **works**, removal of **construction equipment** and surplus **materials and goods** [28, 29, 17.1.20]"

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7 Clause 7.0 - Design responsibility

The following items shall be priced a design, supply and install by the contractor. The contractor will be responsible for the design based on drawings issued by the design team. The design must be fully compliant to relevant standards and guarantees issued where required. Any additional design fees for external professionals required to achieve below requirements needs to be allowed for and priced in this item

In addition the following will be required:

1. Complete design indemnity letters to indemnify the design team for these items.
2. Provide shop drawings for approval by the Architect.
3. Provide samples to be approved by the deign team prior to manufacturing.
4. Sub-contractor to allow for / calculate tolerances for expansion and contraction of aluminium.
5. Sub-contractor to provide the Architect with written guarantees for workmanship provided.

Relevant items/trades:

- a. Aluminium shopfronts, windows and doors
- b. Glass balustrades
- c. Lateral support
- d. Bulk excavation
- e. Post tensioned slabs
- f. Glass roofs

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**Insurances and securities (A8-A11)**

8 Clause 8.0 - **Works** risk

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9 Clause 9.0 - Indemnities

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10 Clause 10.0 - Insurances

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11 **Clause 11.0 - Securities**

The following new clause is added:

"11.11 The **contractor** shall ensure that a waiver of lien is included in all subcontracts and that the **works** executed on the **site** are kept free of all liens and other encumbrances at all times"

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**Execution (A12 - A17)**

12 **Clause 12.0 - Obligations of the parties**

Clause 12.2.19 is amended by replacing the words "On achievement of **practical completion**..." with the words "Prior to and in order to achieve **practical completion**..." and adding the following sub-clauses:

12.2.19.1 The contractor shall make provision for one (1) electronic copy and one (1) hard copy of Operating and Maintenance Manuals in accordance with the requirements of the **principal agent** and **employer**;

12.2.19.2 The **contractor** shall make provision for a detailed set of as fitted layout drawings of the entire installation and for the provision of one (1) electronic copy and one (1) hard copy thereof;

12.2.19.3 The **contractor** shall provide laminated drawings for all plant rooms; and

12.2.19.4 The **contractor** shall comply with and achieve the criteria for achievement of **practical completion**, which includes but are not limited to the milestone testing and operational readiness as detailed in clauses 19.8 and 19.9

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"12.4 Notice Board

The **contractor** shall erect in a position approved by the **principal agent**, maintain and remove on **practical completion** a notice board recommended by the South African Institute of Architects and as approved by the **principal agent** listing the names and logos of the **employer**, the **contractor** and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the **principal agent** for such notice boards to be erected [12.2.18]"

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13 Clause 13.0 - Setting out

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14 Clause 14.0 - Nominated **subcontractors**

The following clause is added:

"14.9 General attendance for pricing by the **contractor** shall be in accordance with the applicable **n/s subcontract agreement**. Notwithstanding this or any other provision, general attendance shall be deemed to include for the **contractor** to provide free of charge to any **subcontractor**, all scaffolding as may be reasonably be required for the execution of the subcontract works"

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15 Clause 15.0 - Selected **subcontractors**

The following clause is added:

"15.9 General attendance for pricing by the **contractor** shall be in accordance with the applicable **n/s subcontract agreement**. Notwithstanding this provision, general attendance shall be deemed to include for the **contractor** to provide free of charge to any **subcontractor**, all scaffolding as may be reasonably be required for the execution of the subcontract works"

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16 Clause 16.0 - **Direct contractors**

The following clauses are added:

"16.4 In respect of **direct contractors** the **contractor** shall:

16.4.1 Designate an area for the **direct contractor** to establish a temporary office and workshop and storage of equipment and materials;

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17 Clause 17.0 - **Contract instructions**

Clause 17.1.8 is amended by adding the following words to the end thereof "and/or workmanship which do not conform to a specification or drawing or reasonable standard"

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**Completion (A18 - A24)**

18 Clause 18.0 - Interim completion

N/A

19 Clause 19.0 - **Practical completion**

Refer to "Requirements for Practical Completion" document included under Annexure 5.3.4 for amendments and obligations regarding the following:

- 1. State of Completion required for practical completion
- 2. Standard of Work
- 3. Procedure and Period required for inspection

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20 Clause 20.0 - Completion in **sections**

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21 Clause 21.0 - **Defects** liability period and **final completion**

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22 Clause 22.0 - **Latent defects** liability period

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23 Clause 23.0 - Revision of the date for **practical completion**

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24 Clause 24.0 - **Penalty** for late or non-completion

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**Payment (A25 - A27)**

25 Clause 25.0 - Payment

26 Clause 26.0 - Adjustment of the **contract value** and **final account**

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27 Clause 27.0 - Recovery of expense and/or loss

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**Suspension and termination (A28 - A29)**

28 Clause 28.0 - Suspension by the **contractor**

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29 Clause 29.0 - Termination

Clause 29.20.2 is deleted in its entirety and replaced with the following:

"29.20.2 Progress of the **works** has ceased, or has been stopped or suspended, for a continuous period of one hundred and twenty (120) **calendar days** due to circumstances beyond the control of either **party**"

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**Dispute resolution (A30)**

30 Clause 30.0 - Dispute resolution

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31 **Agreement**

32 **Contract data**

**Tenderer's selections**

Before submission of his tender the **contractor** is to complete the tenderer's selections in the **contract data**, alternatively if the same is completed by the **principal agent** then the **contractor's** signature of the **agreement** is deemed as acceptance of the content thereof, which acceptance thus includes the tenderer's selections in the **contract data**

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**SECTION B: GENERAL PRELIMINARIES**

**Definitions and interpretation (B1)**

33 Clause 1.1 - Definitions

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34 Clause 1.2 - Interpretation

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**Documents (B2)**

35 Clause 2.1 - Checking of documents

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The following is added to clause 2.1

**"Interpretation of drawings, specifications and bills of quantities**

Should any part or parts of the drawings, specifications or **bills of quantities** not be clearly intelligible to the **contractor**, or the **materials and goods** or articles to be used in the execution of the **works** be considered insufficiently described or the manner in which the **works** are to be carried out not be clear, the **contractor** must obtain from the **principal agent** the necessary information to clarify such drawings, specifications, **bills of quantities** or instructions which request shall be in writing.

All work, equipment, **materials and/or goods** required to execute the project solution in accordance with the **construction programme, contract drawings** and/or **contract documents** all in accordance with the **principal agent's** quality requirements, are deemed included in the rates and prices provided in the **priced document**, any errors and/or omissions in this respect shall be brought to the attention of the **principal agent** for clarification, failing which the provision of such items shall be deemed included in the **contract sum**.

Rates provided by the **contractor** in the **priced document** shall include for fixing, hangers, fittings, transformations, sealant and all other items required to deliver a functional system in accordance with the design intent and specifications."

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36 **Clause 2.2 - Provisional bills of quantities**

The following is added to clause 2.2

"The quantities are provisional and are thus subject to remeasurement.

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37 **Clause 2.3 - Availability of construction information**

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38 Clause 2.4 - Ordering of **materials and goods**  
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**Previous work and adjoining properties (B3)**

39 Clause 3.1 - Previous work - dimensional accuracy  
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40 Clause 3.2 - Previous work - **defects**  
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41 Clause 3.3 - Inspection of adjoining properties  
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**The site (B4)**

42 Clause 4.1 - Handover of **site** in stages  
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43 Clause 4.2 - Enclosure of the **works**  
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

47 Clause 4.6 - Services - known  
F:..... V:..... T:..... Item

**Management of contract (B5)**

48 Clause 5.1 - Management of the **works**

**Carried Forward**

R

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**Brought Forward**

R

The following is added to clause 5.1

**"Mode of procedure and coordination**

The **contractor** shall follow a sequence of work which will enable him to complete the **works** in accordance with the provisions of the **agreement**.

The **contractor** shall allow opposite this clause whatever cost and charges he may consider necessary to meet the stipulated date(s) and for any out-of-sequence working, inconvenience working in shifts, overtime, etc. and all additional costs whatsoever arising therefrom.

Should it appear, in the **principal agent's** opinion, that **works** in any area is not being executed in accordance with **programme** requirements, the **contractor** shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the works back to a programme to the satisfaction of the **principal agent**.

It is specifically noted that notwithstanding the above the **contractor** is and remains responsible for the **programme** and to bring the **works** to **practical completion** and **final completion**.

The **contractor** shall be solely responsible for the coordination of all **subcontractor works** into the general **programme of works**. The **contractor** shall be required to convene meetings with **subcontractors** and suppliers as and when required for this purpose and must keep under constant review his own and all sub-contract labour force and supply of **materials and goods** or equipment in order to adhere to the **programme**.

F:..... V:..... T:.....

Item

49 Clause 5.2 - Progress meetings

F:..... V:..... T:.....

Item

50 Clause 5.3 - Technical meetings

F:..... V:..... T:.....

Item

**Carried Forward**

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R

**Samples, shop drawings and manufacturer's instructions (B6)**

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

The following is added to clause 6.3:

"The **contractor** shall make provision for a detailed set of shop drawings for approval by the **principal agent** of the **works** prior to the installation of any plant, equipment and related items on **site**."

F:..... V:..... T:.....

Item

54 Clause 6.4 - Compliance with manufacturer's instructions

F:..... V:..... T:.....

Item

**Deposits and fees (B7)**

55 Clause 7.1 - Deposits and fees

F:..... V:..... T:.....

Item

**Temporary services (B8)**

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

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R

59 Clause 8.4 - Communication facilities  
F:..... V:..... T:.....

Item

60 F:..... V:..... T:.....

Item

**Prime cost amounts (B9)**

61 Clause 9.1 - Responsibility for **prime cost amounts**  
F:..... V:..... T:.....

Item

**Attendance on subcontractors (B10)**

62 Clause 10.1 - General attendance  
F:..... V:..... T:.....

Item

63 Clause 10.2 - Special attendance  
F:..... V:..... T:.....

Item

**General (B11)**

64 Clause 11.1 - Protection of the **works**  
F:..... V:..... T:.....

Item

65 Clause 11.2 - Protection/isolation of existing **works** and  
**works** occupied in **sections**  
F:..... V:..... T:.....

Item

66 Clause 11.3 - Security of the **works**  
F:..... V:..... T:.....

Item

67 Clause 11.4 - Notice before covering work  
F:..... V:..... T:.....

Item

68 Clause 11.5 - Disturbance

**Carried Forward**

R

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R

The following is added to clause 11.5:

"The **works** are 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 **employer**, public, others and/or to any 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 **construction period** or **contract value** whatsoever

F:..... V:.....T:.....

Item

69 Clause 11.6 - Environmental disturbance

The following is added to clause 11.6:

**"Controlling all forms of pollution"**

The **contractor** shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the **works** and/or **site** during the **construction period** due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc.

The **contractor** is to ensure that all roads which border the **site** and are used by the **contractor** during the execution of the **works** are kept clean and free of any dirt or debris caused by the execution of the **works**"

F:..... V:.....T:.....

Item

70 Clause 11.7 - **Works** cleaning and clearing

**Carried Forward**

R

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R

The following is added to clause 11.7:

"The **contractor** shall provide all necessary dust sheets, covers, ect., and shall exercise all necessary care to prevent marking the surfaces of joinery, walls, floors, ceilings, glass, aluminium, electrical fittings, etc., and shall keep all parts of the works perfectly clean and free at all times from spotting, accumulation of rubbish, debris or dirt arising from painting operations. Any surface disfigured or otherwise damaged shall be completely renovated or replaced as necessary, to the **principal agent's** approval, by the **contractor** at his own expense. The premises shall be left clean and fit for occupation on completion of the **works**."

F:..... V:..... T:.....

Item

71 Clause 11.8 - Vermin

F:..... V:..... T:.....

Item

72 Clause 11.9 - Overhand work

F:..... V:..... T:.....

Item

73 Clause 11.10 - Tenant installations

F:..... V:..... T:.....

Item

74 Clause 11.11 - Advertising

F:..... V:..... T:.....

Item

**SECTION C: SPECIFIC PRELIMINARIES**

75 **Contractor to be responsible**

The **contractor** acknowledges that the principal objective of his appointment is his expert knowledge in the execution of the scope of **works** contemplated by this **agreement**. The **contractor** shall therefore be solely responsible for all aspects of the construction of the **works** including but not limited to the management, resourcing, programming, co-ordination, etc. all as required for the type of project described within the time limits and quality standards specified.

F:..... V:..... T:.....

Item

**Carried Forward**

R

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**Brought Forward**

R

76 **Warranties for materials and goods, equipment and workmanship**

Where warranties for materials and/or workmanship are called for, the **contractor** shall obtain a written warranty, addressed to the **employer**, from the entity supplying the materials and/or executing the work and shall deliver same to the **principal agent** on **practical completion** of the **works**.

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of **practical completion** and that any **defects** or **latent defects** 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 **notice** to do so.

F:..... V:..... T:.....

Item

77 **Overtime**

Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the **contractor**, unless the **principal agent** has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the **employer**.

The contractor is referred to the Cape Town Municipality by-laws, and specifically the following clauses:

(a) No person shall during the course of any building, demolition or excavation work use any machine, machinery, engine, apparatus, tool or contrivance, which in the opinion of the local authority may unreasonably disturb or interfere with the amenity of the neighbourhood:

- (i) on a public holiday or Sunday
- (ii) before 06:00 or after 17:00 on any Saturday; and
- (iii) before 06:00 or after 18:00 on any day

F:..... V:..... T:.....

Item

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R

78 **Cooperation of the contractor for cost management**

It is specifically agreed that the **contractor** accepts the obligation of assisting the **principal agent** in implementing proper cost management. The **contractor** will implement all reasonable cost management procedures to ensure that the **contract value** does not exceed the **contract sum**.

F:.....V:..... T:.....

Item

79 **Overloading**

The **contractor** shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the **works** or temporary works, for example, scaffolding, etc. The **contractor** shall submit details of his proposed loading, storage, plant erection, etc to the **principal agent** for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the **principal agent's** requirements in connection with the provision of temporary support work, etc. Any damage caused to the **works** by overloading shall be made good by the **contractor** at his sole expense.

F:.....V:..... T:.....

Item

80 **Confidentiality**

The **contractor** undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the **works**. No information regarding this project shall be published or disclosed without the prior written consent of the **employer**.

The terms and conditions of the **employer's** non-disclosure agreements, signed by the **contractor**, are incorporated into the **agreement**.

F:.....V:..... T:.....

Item

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**Brought Forward**

R

81 **Media releases**

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 **employer**

The **contractor** together with his subcontractors shall not, without the prior written consent of the **employer**, cause any statement or advertisement connected with this project to be printed, screened or aired by the media.

F:.....V:..... T:.....

Item

82 **Copyright**

The ownership of the copyright in and to: all drawings, specifications, models and documents of any nature delivered to the **contractor** or produced by or on behalf of the **contractor** in connection with the **works**; and, the artistic character and/or artistic design of the **works**, shall remain vested in and/or is hereby assigned to the **employer** by the **contractor**.

F:.....V:..... T:.....

Item

83 **Forward Cover**

Forward cover must be taken out by the **contractor** on all imported items that are subject to currency fluctuation.

F:.....V:..... T:.....

Item

**Carried Forward**

R

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84 Free Issue

The contractor shall provide the necessary storage, rigging, placement, installation, testing, etc. of the free issue equipment and/or materials upon delivery on site save for free issue equipment and/or materials relating to installation works to be done by a subcontractor subject to such storage, rigging, placement, installation, testing, etc. being expressly stated as the subcontractor's responsibility in the subcontractor's agreement.

The contractor shall give notice forthwith to the principal agent and/or the employer where items of free issue have been received damaged prior to storage or, where on unpacking, are found not to be in good order before installing such items.

F:..... V:..... T:.....

Item

85 Rigging and Crainage

The contractor shall make provision for the lifting and rigging of all plant and/or equipment required for the execution of the works. Any and all free issue equipment and/or materials relating to works for execution by a subcontractor are the responsibility of the subcontractor, as noted above and thus excluded from this item.

F:..... V:..... T:.....

Item

86 Scaffolding

The contractor shall make provision for scaffolding required for the execution of the works, which includes the works by subcontractors and direct contractors

F:..... V:..... T:.....

Item

**Brought Forward**

R

87 **Unauthorised person/workmen on premises**

The **contractor** shall provide personalised identification ("ID") cards to each person present on the **site**. ID cards must include photo, name and ID number. No person will be permitted to enter the premises without an ID card. The **contractor** shall at all times strictly exclude all unauthorised persons from the **works** and the **site** and shall set up notice boards to that effect.

F:.....V:..... T:.....

Item

88 **Training of employer's staff**

The **contractor** shall arrange, make provision for and manage the training of the **employer's** operational staff on the operation of the complete installation to be done under this **agreement**.

F:.....V:..... T:.....

Item

89 **Propping of floors below**

The **contractor** 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 **materials and goods** and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the **principal agent** and the cost thereof shall be borne by the **contractor**

F:..... V:.....T:.....

Item

90 **Testing of roof waterproofing for water tightness**

Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the water tightness of the waterproofing and before any further construction **works** are carried out

F:..... V:.....T:.....

Item

**Carried Forward**

R

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R

91 **Sub-contractor list**

The **contractor** shall provide the **principal agent** with a list of all **sub contractors** enlisted on the project prior to appointment, for comment and discussion to performance and work quality experienced on previous projects. On request of the **principal agent**, any such **contractors** will be withdrawn based on mutual understanding.

F:..... V:..... T:.....

Item

92 **Main contractor management**

The **contractor** shall table a detailed CV of his management staff, ie. the foreman and contracts manager with a CV of each prior appointment, for comment and discussion to performance and work quality experienced on previous projects.

F:..... V:..... T:.....

Item

93 **Quality control**

The **contractor** shall submit a detailed format for a quality control check list prior to appointment.

F:..... V:..... T:.....

Item

94 **Local labour empowerment requirement**

The **tenderers'** attention is drawn to the fact that there is no specific Local Labour employment requirements from the **client**, notwithstanding this, the **tenderer** is to manage his workforce to not be stopped by local communities during works execution.

The **tenderer** is to allow for a Community Liason Officer (CLO), whom may be required to engage with local labort, etc in order to avoid work stoppages, etc.

F:..... V:..... T:.....

Item

**Carried Forward**

R

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**SUMMARY OF CATEGORIES**

95 Total P's & G's

Item

Unless the **parties** agree otherwise prior to signature of this **agreement**, the total **preliminaries** amount shall for adjustment purposes be dealt with in accordance with option A of the contract data and split as follows: Time Related = 60%, Fixed = 25% and Value Related = 15%.

In such instance, despite any provisions to the contrary, option A shall apply for adjustment of **preliminaries**.

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Final Summary**

R

Section No. 1

Bill No. 1

Preliminaries

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**Alterations and Additions to Block N - iThemba Labs**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO 1</u></b>			
	<b><u>DEMOLITIONS AND ALTERATIONS</u></b>			
	For specifications refer to "Specification of Materials and Methods to be used"			
	<b><u>PREAMBLES</u></b>			
	See "Model Preambles for Trades (2008 Edition)"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>TEMPORARY BARRIERS AND SCREENS</u></b>			
	<b><u>Temporary barriers, screens, etc including removal</u></b>			
1	Allow for the erection and removal of 1800 x 2900mm high temporary barrier of timber framing and hardboard covering to one side, painted white	No	1.00	
	<b><u>REMOVAL OF EXISTING WORK</u></b>			
	<b><u>CONCRETE</u></b>			
	<b><u>Breaking up and removing mass concrete</u></b>			
2	Strip footing	m3	2	
3	100mm Thick surface bed	m2	37	
	<b><u>Saw cut along edges and carefully breaking up and removing mass concrete inside existing building</u></b>			
4	600mm Wide section of surface bed for new strip footing excavation (elsewhere)	m	15	
	<b><u>PAVING</u></b>			
	<b>Carried Forward</b>			
	Section No. 2 Bill No. 1 Alterations <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			R

**Brought Forward**

R

**Take up and removing paving etc**

5 Brick paving m2 77

**BRICKWORK**

**Breaking up and carefully removing brickwork etc inside existing building**

6 Half brick wall m2 55

7 280mm Hollow brick wall m2 12

**Take out and remove doors from frames**

8 Timber single door from steel frame, size 813 x 2100mm high No 7

**Take out and remove, doors, windows, etc including thresholds, sills, etc from walls to be demolished**

9 Timber single door and steel frame, size 813 x 2100mm high from 110mm wall No 7

10 Aluminium double door and frame with top light, size 1400 x 2915mm high from 2800mm wall No 1

**Carefully take out and remove aluminium shopfront with doors, windows, etc including thresholds, sills, etc**

11 Aluminium foor to ceiling shopfront size 4200 x 2915 high with double door No 2

**Carefully take out and remove doors including frames and build up opening in brick work including making good plaster on both sides (making good paintwork elsewhere)**

12 Timber single door and steel frame, size 813 x 2100mm high from 110mm wall and build up opening No 1

13 Timber single door and timber frame, size 813 x 2100mm high from 220mm wall and build up opening No 1

**Carried Forward**

R

Section No. 2

Bill No. 1

Alterations

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**Brought Forward**

R

**Carefully take out and store for re-use windows and frames and build up opening in brick work including making good plaster on both sides (making good paintwork elsewhere)**

14 Aluminium windows size 1200 x 2915 high from 280mm hollow wall No 2

**Carefully take out remove doors, windows, etc including frames, thresholds, sills, etc and alter opening to form new clear opening and making good reveals in brick walls including making good plaster on both sides (making good paintwork elsewhere)**

15 Aluminium windows size 1600 x 1750 high from 280mm hollow wall and alter opening to form new clear opening size 1600 x 2915mm high No 1

**Breaking out for and forming openings through brick walls for doors and frames including necessary precast concrete lintels, new threshold, etc, build in steel door frame and making good plaster on both sides and into reveals and cill**

16 Steel single door frame, size 813 x 2100mm high in 220mm wall No 1

**CARPENTRY AND JOINERY**

**Taking out/off and removing joinery fittings etc**

17 Sundry joinery removal allowance No 1.00

**CEILING AND PARTITIONING**

**Taking down and removing ceilings, partitions, etc**

18 Drop-in ceiling boards including cornices, suspended ceiling system, etc m2 159

19 Timber framed partitioning 2700mm high including doors, viewing panels, etc m 20

**FLOOR COVERINGS**

**Carried Forward**

R

Section No. 2

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Alterations

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**Alterations and Additions to Block N - iThemba Labs**

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R

**Taking up and removing nonfriable vinyl asbestos floor tiles and dispose in line with regulatory requirements from existing screeded floor to be demolished**

20 Vinyl tiles glued to floors m2 18

**Taking up and removing nonfriable vinyl asbestos floor tiles and dispose in line with regulatory requirements, repair, level and make good concrete/screeded floor and prepare for new floor covering with smooth troweled self leveling screed**

21 Vinyl tiles glued to floors m2 76

**IRONMONGERY**

**Taking out and removing ironmongery**

22 Sundry allowance for removal of bathroom fittings, including mirrors, hand dryers, soap holders, etc Item

**METAL WORK**

**Taking out and removing sundry metal work**

23 Sundry metal brackets etc Item

**TILING**

**Taking up and removing, repair, level and make good floor and prepare for new floor covering with smooth troweled self leveling screed**

24 Ceramic tiles from floors and prepare floor with new self levelling screed m2 41

**Hacking up/off and removing from brickwork to be demolished**

25 Tiles from walls m2 141

**PLUMBING AND DRAINAGE**

Carried Forward

R

Section No. 2

Bill No. 1

Alterations

**iLABS/RFQ/2023/23:252**

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Brought Forward				R
<b><u>Taking out and removing sanitary fittings including disconnecting, stopping and removing piping from fittings and making good floor and wall finishes (making good floor finishes and paintwork elsewhere)</u></b>				
26	Toilet including cistern, etc	No	6	
27	Ceramic hand wash basin including taps, traps, waste, etc	No	9	
28	Shower including taps, traps, waste, etc	No	1	
29	Geyser including stopcocks, valves, tray, brackets, etc	No	1	
<b><u>MAKING GOOD OF FINISHES ETC</u></b>				
<b><u>Making good brickwork</u></b>				
30	Brickwork to face of wall where half brick cross wall removed	m	23	
31	Brickwork to face of wall where one brick cross wall removed	m	6	
<b><u>Making good screed</u></b>				
32	Floors where half brick walls removed	m	19	
33	Floors where one brick walls removed	m	20	
<b><u>Making good internal cement plaster</u></b>				
34	Plaster where half brick cross walls removed	m	23	
35	Plaster where one brick cross walls removed	m	6	
<b><u>Sundries</u></b>				
36	Cutting toothings and bonding new work to existing	m2	1	
<b><u>BUDGETARY ALLOWANCES</u></b>				
37	Provide the sum of R5 000,00 (five thousand rand) for removing existing AC units		Item	5 000.00
38	Provide the sum of R5 000,00 (five thousand rand) for making safe existing electrical work		Item	5 000.00
<b>Carried Forward to Summary of Section No. 2</b>				R
Section No. 2				
Bill No. 1				
Alterations				
<b>iLABS/RFQ/2023/23:252</b>				
<b>Alterations and Additions to Block N - iThemba Labs</b>				

Item No	<b><u>BILL NO 2</u></b>	Quantity	Rate	Amount
	<b><u>EARTHWORKS</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>Nature of ground</u></b>			
	No soil profile is available			
	<b><u>Carting away of excavated material</u></b>			
	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 dumping site and carted to a site to be located by the contractor			
	<b><u>EXCAVATION IN EARTH</u></b>			
	<b><u>Excavation in earth not exceeding 2m deep</u></b>			
1	Trenches	m3	8	
2	Trenches inside existing building	m3	7	
3	Ground beams	m3	10	
	<b><u>EXCAVATION IN STRATA OF A MORE DIFFICULT CHARACTER</u></b>			
	<b><u>Extra over trench and hole excavations in earth for excavation in</u></b>			
4	Soft rock	m3	1	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 2 Earthworks <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			

<b>Brought Forward</b>				R
5	Hard rock	m3	0.4	
	<b><u>Extra over trench and hole excavations in earth for breaking up and removing</u></b>			
6	Brickwork	m3	1	
7	Unreinforced concrete	m3	1	
8	Reinforced concrete	m3	1	
	<b><u>SUNDRIES</u></b>			
	<b><u>Extra over all excavations for carting away</u></b>			
9	Surplus material from excavations on site to a dumping site to be located by the contractor	m3	19	
	<b><u>Risk of collapse of excavations</u></b>			
10	Sides of trench and hole excavations not exceeding 1,5m deep	m2	99	
	<b><u>Keeping excavations free of water</u></b>			
11	Allow for keeping excavations free of water		Item	
	<b><u>FILLING ETC</u></b>			
	<b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density</u></b>			
12	Backfilling to trenches, holes, etc	m3	2	
	<b><u>Coarse clean sand filling supplied by the contractor and compacted to 100% Mod AASHTO density in layers not exceeding 200mm thick</u></b>			
13	50mm Blinding layer under footings and bases	m3	3	
14	Backfilling to trenches, holes, etc	m3	2	
15	Under floors etc	m3	9	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 2 Earthworks <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			



**Brought Forward**

R

**Earth filling of Calcrete material supplied by the contractor, compacted to 100% modified AASHTO density**

16	Under floors etc	m3	20
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**Compaction of surfaces**

17	Compaction of ground surface under floors etc including scarifying for a depth of 200mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m2	132
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**Prescribed density tests on filling**

18	"DCP" test (on engineer's request only)	No	2
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**Carried Forward to Summary of Section No. 2**

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Section No. 2  
 Bill No. 2  
 Earthworks  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO 3</u></b></p> <p><b><u>CONCRETE, FORMWORK AND REINFORCEMENT</u></b></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Trade names</u></b></p> <p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p> <p><b><u>Cost of tests</u></b></p> <p>The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SANS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the engineer. (Test cubes measured separately are for test cubes over and above the requirements of SANS 1200G and specifically requested by the consulting engineer)</p> <p><b><u>Formwork</u></b></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>			
	<b>Carried Forward</b>		R	
	<p>Section No. 2  Bill No. 3  Concrete, Formwork and Reinforcement  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>			

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Formwork to soffits of solid slabs etc shall be deemed to be to slabs not exceeding 250mm thick unless otherwise described. Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

**UNREINFORCED CONCRETE**

**Class 15 concrete of 19mm stone**

1 Steps, urinal steps, cupboard platforms, etc m3 1

**REINFORCED CONCRETE**

**20MPa/13mm Strength concrete**

2 Filling to cavities of walls m3 1

**25MPa/19mm Strength concrete**

3 Surface beds on waterproofing m3 16

4 Ground beams m3 6

5 Strip footings m3 6

**TEST BLOCKS**

6 Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (on engineers request) No 4

**CONCRETE SUNDRIES**

**"Sikagrout 212" or equally approved non-shrink grout**

7 Bearing pad 30mm thick under 175 x 100mm base plate No 44

**ROUGH FORMWORK (DEGREE OF ACCURACY III)**

**Carried Forward**

R

Section No. 2  
Bill No. 3  
Concrete, Formwork and Reinforcement  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

<b>Brought Forward</b>			R
<b><u>Rough formwork to sides</u></b>			
8	Strip footings (provisional)	m2	50
9	Ground beams	m2	32
<b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>			
<b><u>Rough formwork to sides</u></b>			
10	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	80
<b><u>Boxing in rough formwork to form</u></b>			
11	Pocket for floor spring in surface bed	No	2
<b><u>MOVEMENT JOINTS ETC</u></b>			
<b><u>Saw cut joints</u></b>			
12	3 x 40mm Saw cut joints in top of concrete and reamed to 6mm wide after shrinkage	m	22
<b><u>Expansion joints with 12mm soft board between vertical concrete surfaces</u></b>			
13	10mm Joints not exceeding 300mm deep in floors	m	69
<b><u>Dowel joints with Y12 dowels drilled into existing concrete surfaces and epoxied with "Epidermix 372" or equally approved</u></b>			
14	750mm Y12 dowel drilled and epoxied 150mm deep in existing concrete strip footing	No	16
<b><u>REINFORCEMENT</u></b>			
<b><u>Mild steel reinforcement to structural concrete work</u></b>			
15	8mm Diameter bars	kg	153
<b><u>High tensile steel reinforcement to structural concrete work</u></b>			
16	12mm Diameter bars	kg	580
<b>Carried Forward</b>			R
Section No. 2 Bill No. 3 Concrete, Formwork and Reinforcement <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			

**Brought Forward**

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17	10mm Diameter bars	kg	22
<b><u>Fabric reinforcement</u></b>			
18	Ref 193 mesh reinforcement in concrete surface beds, slabs, etc	m2	66
19	Ref 395 mesh reinforcement in concrete surface beds, slabs, etc	m2	66

**Carried Forward to Summary of Section No. 2**

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Section No. 2  
Bill No. 3  
Concrete, Formwork and Reinforcement  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO 4</u></b></p>			
<p><b><u>MASONRY</u></b></p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Trade names</u></b></p>			
<p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p>			
<p><b><u>BRICKWORK</u></b></p>			
<p><b><u>Hollow walls etc</u></b></p>			
<p>Descriptions of hollow walls are deemed to include for leaving every fifth perpend of the bottom course of the external skin open as a weep hole</p>			
<p><b><u>Face bricks</u></b></p>			
<p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p>			
<p><b><u>Pointing</u></b></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>Samples</u></b></p>			
<p>Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site</p>			
<p><b><u>FOUNDATIONS</u></b></p>			
<p><b><u>BRICKWORK</u></b></p>			
<p><b>Carried Forward</b></p>		R	
<p>Section No. 2  Bill No. 4  Masonry  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>			

<b>Brought Forward</b>		
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>		
1	280mm Hollow walls of two half brick skins including ties	m2 22
<b><u>SUPERSTRUCTURE</u></b>		
<b><u>Brickwork in NFP bricks in class II mortar</u></b>		
2	Half brick walls	m2 19
3	One brick walls	m2 49
<b><u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar</u></b>		
4	280mm Hollow brick walls	m2 45
<b><u>BRICKWORK SUNDRIES</u></b>		
<b><u>Sundry brickwork</u></b>		
5	Splayed mortar fillet one course high in 50mm cavity	m 20
<b><u>Closing of cavities</u></b>		
6	Close 50mm wall cavity at reveal or end of wall with brickwork half brick wide	m 12
7	Close 50mm wall cavity horizontally with two courses brickwork	m 8
<b><u>Prestressed fabricated lintels</u></b>		
8	90 x 70mm Lintels in lengths not exceeding 3m	m 17
<b><u>Brickwork reinforcement</u></b>		
9	75mm Wide reinforcement built in horizontally	m 539
10	150mm Wide reinforcement built in horizontally	m 134
<b><u>Joint forming material of "Sondor Jointex" or equally approved in movement joints</u></b>		
11	10mm "Jointex" not exceeding 300mm wide built in vertically through brick walls	m 9

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**Carried Forward**

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Section No. 2  
 Bill No. 4  
 Masonry  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

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**Galvanised hoop iron cramps, ties, etc**

12	30 x 1,6mm Cramp 900mm long with one end fixed to existing brickwork and other end built into new brickwork	No	40
13	30 x 1,6mm Cramp 900mm long with one end fixed to existing concrete column and other end built into new brickwork	No	320

**FACE BRICKWORK**

**"De Hoop Red Satin" face bricks pointed with recessed horizontal and vertical joints**

14	Extra over brickwork for face brickwork	m2	46
15	220mm Wide sill set sloping and slightly projecting	m	8

**Carried Forward to Summary of Section No. 2**

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Section No. 2

Bill No. 4

Masonry

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**



Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO 5</u></b></p> <p><b><u>WATERPROOFING</u></b></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Trade names</u></b></p> <p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p> <p><b><u>Waterproofing</u></b></p> <p>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</p> <p><b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b></p> <p><b><u>One layer of 375 micron "Consol Plastics Brikgrip DPC" embossed damp proof course</u></b></p>			
1	On walls	m2	7	
	<p><b><u>One layer of 375 micron waterproof sheeting with minimum 150mm laps sealed withp ressure sensitive tape</u></b></p>			
2	Under surface beds	m2	132	
	<p><b><u>WATERPROOFING ROOFS, BASEMENTS, ETC</u></b></p> <p><b><u>"Evolite" or equal and approved waterproofing applied strickly according to the manufacturer's specification</u></b></p>			
3	In walls stepped at thresholds	m	4	
	<b>Carried Forward</b>			R
	<p>Section No. 2            Bill No. 5            Waterproofing  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>			

**Brought Forward**

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**JOINT SEALANTS ETC**

**"Sikaflex Pro-3WF" or equally approved sealing compound including, bond breaker, primer, etc**

4	3 x 20mm In joints in horizontal surfaces	m	22
5	10 x 20mm In joints in horizontal surfaces	m	69
6	10 x 20mm In joints in vertical surfaces	m	19

**Carried Forward to Summary of Section No. 2**

Section No. 2

Bill No. 5

Waterproofing

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 6</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b>			
	<b><u>0,53mm Thick IBR Z275 pre-galvanised roof sheets in single short lengths drilled, lined and torque fixed properly to purlins including 0,53mm galvanised accessories, etc. strictly according to manufacturer's specification and detail</u></b>			
1	Roof covering with pitch of 2 degrees	m2	65	
	<b>Carried Forward to Summary of Section No. 2</b>		R	
	Section No. 2			
	Bill No. 6			
	Roof Coverings			
	<b>iLABS/RFQ/2023/23:252</b>			
	<b>Alterations and Additions to Block N - iThemba Labs</b>			

Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO 7</u></b></p> <p><b><u>CARPENTRY AND JOINERY</u></b></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Trade names</u></b></p> <p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p> <p><b>Joinery:</b></p> <p>Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc</p> <p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes</p> <p><b>Fixing:</b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><b><u>Decorative laminate finish:</u></b></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p><b><u>SKIRTINGS</u></b></p> <p><b><u>Wrought Meranti</u></b></p>			
1	19 x 69mm Skirtings	m	91	
	<p><b><u>DOORS ETC</u></b></p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2  Bill No. 7  Carpentry and Joinery  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>			

**Brought Forward**

**Flush panel semi-solid core door with 3.2mm standard hardwood veneer covering om both sides hung to timber frames (refer architects drawing no 100 P)**

2	40mm Door 813 x 2032m high (Type D1, D3 & D3A)	No	7
3	40mm Door 813 x 2032m high under cut by 100mm (Type D2, D2A & D4)	No	7

**BEADS, ARCHITRAVES, ETC**

**Fibre cement**

4	224 x 10mm Window sills plugged	m	8
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**BUDGETARY ALLOWANCES**

5	Provide the sum of R30 000,00 (thirty thousand rand) for vanity tops	Item	30 000.00
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**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 7  
 Carpentry and Joinery  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

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Item No		Quantity	Rate	Amount
	<p><b><u>BILL NO 8</u></b></p> <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p> <p>For preambles refer to "Model Preambles for Trades"</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Trade names</u></b></p> <p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p> <p><b><u>Descriptions</u></b></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or 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 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p>Ceilings shall be deemed to be horizontal unless otherwise described</p> <p><b><u>CEILINGS</u></b></p> <p><b><u>"Isotherm" or equal and approved insulation</u></b></p>			
1	135mm Insulation closely fitted and laid on top of suspended ceiling	m2	191	
	<p><b><u>SUSPENDED CEILINGS</u></b></p>			
	<b>Carried Forward</b>			R
	<p>Section No. 2  Bill No. 8  Ceilings, Partitions and Access Flooring  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>			

**Brought Forward**

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**600 x 1200mm "Donn" or equally approved white vinyl clad ceiling panels laid in pre-painted "Donn" or equally approved butt-cut fire rated white exposed T suspension system including main and cross tees, necessary hangers, grids, etc**

2 Ceilings fixed to and including suspended ceiling system suspended not exceeding 1m below concrete soffits, including all necessary hangers, etc m2 191

3 Extra over ceiling for opening for 600 x 600 mm light fitting No 32

4 Extra over ceiling for opening for 600 x 600 mm diffuser No 5

**"Donn" or equally similar approved white ceiling trims**

5 Shadow line edge trim plugged m 213

**Carried Forward to Summary of Section No. 2**

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Section No. 2  
Bill No. 8  
Ceilings, Partitions and Access Flooring  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

Item No	<b><u>BILL NO 9</u></b>	Quantity	Rate	Amount
	<b><u>FLOOR COVERINGS</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>FLOOR COVERINGS</u></b>			
	<b><u>3,5mm "Marley Superflex" or equally approved vinyl sheeting with welded joints to match existing</u></b>			
1	On floors	m2	128	
	<b><u>POLISH, SEALERS, ETC</u></b>			
	<b><u>Approved</u></b>			
2	Two coats wax polish on vinyl flooring	m2	128	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2 Bill No. 9 Floor Coverings <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			



Item No	<b><u>BILL NO 10</u></b>	Quantity	Rate	Amount
	<b><u>IRONMONGERY</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>Finishes to ironmongery</u></b>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<b><u>HINGES, BOLTS, ETC</u></b>			
	<b><u>"Dorma"</u></b>			
1	DBB-SS-009 Two ball bearing butt hinge	No	28	
2	DFB-SC-181 305mm Manual flush bolt with heel	No	1	
3	DFB-SC-180 153mm Manual flush bolt with heel	No	1	
	<b><u>LOCKS</u></b>			
	<b><u>"Dorma"</u></b>			
4	D032D SS bathroom/WC dead lock	No	7	
5	DWC-006 SS W/C indicator and turn knob escutcheons set	No	7	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 10 Ironmongery <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			

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**"Cisa"**

6	Double throw deadbolt and roller CxC 85mm including C2000 SN Oval-profile double cylinder lock master keyed	No	4
7	Double throw deadbolt and roller CxC 85mm including C2000 SN Oval-profile single cylinder lock master keyed	No	3
8	"Fast" Push panic exit device including mounting plates etc. complete	No	1

**HANDLES**

**"Dorma"**

9	Pair of DKE-001DPH-SS-215 pull handles	No	2
10	Pair of DKE-001 SS Round cylinder escutcheon	No	1
11	Set of TH-125 NS Cyl SS lever handles on narrow stile rose with narrow stile cylinder escutcheon	No	7

**DOOR CLOSERS**

**"Dorma"**

12	TS83 Door closer with angle bracket and arm fixed to timber	No	3
13	BTS80 System double action floor spring including pivot accessories	No	2

**LETTERS, NAMEPLATES, ETC**

**"Dorma"**

14	DSS-130-M 150 x 150mm Stainless steel plate with male symbol	No	1
15	DSS-131-F 150 x 150mm Stainless steel plate with female symbol	No	1
16	DSS-133-MF 150 x 150mm Stainless steel plate with male and female symbol	No	1

**Carried Forward**

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Section No. 2  
 Bill No. 10  
 Ironmongery  
**iLABS/RFQ/2023/23:252**  
**Alterations and Additions to Block N - iThemba Labs**

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**"Union"**

17	150 x 150mm AL 5022-E15/E16 Natural anodised aluminium plate with running man symbol	No	1
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**BATHROOM FITTINGS**

**"Hammerhead"**

18	Theft proof stainless steel toilet roll holder code TR3N, plugged	No	7
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19	Soap dispenser lockable code SDS/satin 1000ML, plugged	No	4
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20	Paper towel lockable dispenser code PD FOLDS/S size 280 x 100 x 265mm, plugged	No	3
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21	Stainless steel wall mounted disposer bin code DECO WMBS/S, plugged	No	3
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**SUNDRIES**

**"Dorma"**

22	DHC-SS-031B Hat and coat hook with rubber buffer	No	7
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23	DDS-NP-018 Floor mounted door stop, plugged	No	7
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**Carried Forward to Summary of Section No. 2**

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Section No. 2

Bill No. 10

Ironmongery

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO. 11</u></b></p>			
<p><b><u>STRUCTURAL STEELWORK</u></b></p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p>All structural steelwork to be carried out in accordance with SANS 10162-1 and 10162-2, the latest additon thereof</p>			
<p>Design loads are to be in accordance with SANS 0160.</p>			
<p>All structural steelwork shall be grade S355JR unless otherwise noted.</p>			
<p>A certificate from the steel manufacturer in which the grade of the structural steel is verified shall be handed to the Engineer for approval before erection commences.</p>			
<p>All site welds are to be wire brushed and coated with one coat of SANS epoxy zinc rich primer followed by one top coat to match the surrounding paintwork. Any site weld must be approved by the Engineer, prior commencement</p>			
<p>Where steelwork ties in with concrete work, dimensions to be checked on site prior to manufacture.</p>			
<p>Purlins must span over 2 bays minimum unless otherwise noted.</p>			
<p>All round bars and holding down bolts to be grade 4.6. All other bolts to be grade 8.8.</p>			
<p>Welding to be in accordance with the relevant recommendation of SANS 0162 and SANS 044. Welding shall be performed by coded welders who have passed the test of D.I.I. Ten percent (10%) of all welds to be inspected by means of dye penetrant, inspection to be done by an independent laboratory.</p>			
<p>The contractor shall prepare a complete set of shop drawings and shall submit these to the engineer for approval before fabrication commences. The contractor shall allow two weeks for the checking and approval by the Engineer and shall also allow for any possible changes to shop drawings. Shop drawings to be</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2  Bill No. 11  Structural Steelwork  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>		R	

**Brought Forward**

provided in hard copy (paper), PDF, AutoCAD 3D dxf or Tekla BIMsight.

All welds shall be 6mm continuous fillet welds and full penetration butt welds unless otherwise noted. No stitch welding will be allowed.

The proposed method and sequence of erection of the structure shall be submitted to the Engineer for written approval. Such submission is to take place at time of shop drawing submission. The contractor shall indicate the proposed method of propping and temporary bracing to ensure stability of the structure during erection. Such stability during erection remains the responsibility of the contractor. Where temporary bracing or propping is necessary, the contractor shall be responsible for the design, erection, maintenance and removal (where necessary) of such supports. Proposal of such bracing or propping shall be submitted to the Engineer at an early stage for written approval.

Descriptions of holding down and anchor bolts shall be deemed to include bending, threading, nuts and washers and embedding in concrete or building into brickwork. All bolts shall be used with appropriate nuts and washers and once tightened, the remaining portion of bolt protruding from the nut should not be no longer than half and not shorter than one quarter of the bolt diameter.

Hot dip galvanising to be in accordance with SANS 763. Members must be hot dipped galvanised, members made of galvanised plate will not be accepted.

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

**Carried Forward**

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Bill No. 11

Structural Steelwork

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

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Painting of structural steelwork

Descriptions of steelwork under headings with "PAINTED STEEL....." shall be rust free and deemed to include for preparation through sandblasting/cleaning and painted strictly in accordance with item 6.20 of the Notes & Specifications by Engineer, and prices are to include for this.

HDG members will not be painted

For details and additional notes of structural steelwork refer to Engineer's Notes & Specifications. All member sizes are preliminary, rates will apply to similar sized sections of the same type of section.

For details of structural steelwork refer to Engineer's drawings no's 23/2274/01 & 23/2274/02

**GALVANISED AND PAINTED STEEL COLUMNS AND BEAMS**

**Welded columns in single lengths with flat section base plates and end plates, bolted to concrete or steel**

1	75 x 75 x 4,0mm SHS posts with base plates (no.44)	T	1.10
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**Welded beams in single lengths with flat section bearer and connection plates bolted to steel and concrete**

2	75 x 75 x 4,0mm SHS beams with purlin connection plates (no.22)	T	0.35
---	---	---	------

**Bolts to columns, beams, etc**

3	M12 GR8.8 Bolts embedded 150mm deep chemically anchored by specialist in concrete including mortice in concrete	No	176
---	---	----	-----

**GALVANISED BRACING, ETC**

**Welded bracing, etc with angle section and flat section connection plates bolted to steel**

4	12mm Diameter tensioned cross bracing rods	kg	28.48
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**HOT DIPPED GALVANISED PURLINS, GIRTS,  
ETC**

**Purlins and girts bolted to steel**

5	75 x 50 x 20 x 2,0mm Lipped channel purlines	T	0.20
6	100 x 50 x 20 x 2,0mm Lipped channel purlines	T	0.11

**Carried Forward to Summary of Section No. 2**

Section No. 2

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Structural Steelwork

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**Alterations and Additions to Block N - iThemba Labs**

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Item No	Quantity	Rate	Amount
<p><b><u>BILL NO 12</u></b></p>			
<p><b><u>METALWORK</u></b></p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Trade names</u></b></p>			
<p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p>			
<p>Descriptions Descriptions of bolts shall be deemed to include nuts and washers Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p>			
<p><b><u>Bolting to metalwork</u></b></p>			
<p>Where metalwork is described as "bolted" to steel, timber, brickwork or concrete, the bolts are measured elsewhere</p>			
<p><b><u>Aluminium windows and doors</u></b></p>			
<p><b><u>Quality</u></b></p>			
<p>Must be manufactured according to the requirements of the Association of Architectural Aluminium Manufactures of South Africa (AAAMSA) according to the categories as specified on the architect's schedules</p>			
<p><b><u>Epoxy powder coated aluminium</u></b></p>			
<p>Epoxy powder must comply to SANS 1274-1979. All exposed epoxy powdered surfaces must be protected with a special adhesive tape before leaving the Manufacturer's workshop and must be removed after the doors, windows, sidelights, etc have been erected</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2 Bill No. 12 Metalwork</p>			
<p><b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b></p>			
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**Natural anodised and polished bright anodised**

Must comply to SANS 999-1974. The layers of anodising must be sealed to approval and aluminium must be cleaned mechanically, polished and finished to approval before anodising. All exposed anodised surfaces must be protected with a spacial adhesive tape before leaving the Manufacturer's workshop and must be removed after the doors, windows, sidelights, etc have been erected

**Windows, doors, sidelights, etc**

Must be manufactured by an approved firm of Specialists and must be of top quality and approved design. Windows, doors, sidelights, etc must be square to receive glass panels with glazing beads, neoprene gaskets, silicone sealant, etc. All opening sections must fit perfectly and must open and close freely. Where possible, all jointing must be done by means of argon arc welding, riviting, etc and must be cleaned neatly

Framework must be suitable for brick, steel or concrete reveals. In the case of brick reveals the framework must be equipped with 2,8mm aluminium lugs 13mm wide x 150mm long, fixed to framework, one at each corner, and at not exceeding 610mm centres to sides, top and bottom. In the case of concrete reveals, the framework must be sunken holed for and provided with necessary screws at centres described for lugs above

Windows, doors, sidelights, etc must be checked immediately after being delivered to site and adjustments and repairs be done before being set up into position. The frame must be treated with a bituminous paint where in contact with steel, brickwork, concrete, etc. Furthermore, the windows, doors, sidelights, etc must be set up in position for building in and be adjusted to open and close properly

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**Protection**

The windows, doors, sidelights, etc must be built in as close to the end of the Contract period as possible, to minimize the danger of damage and weathering and must be covered with temporary protection to protect it against damage, weathering and discolouring caused by cement mortar droppings, varnish, polish, paint, etc, all to the approval of the Architect

All damaged aluminium work must be replaced by the subcontractor to the approval of the Architect

**Design and section**

Windows, doors, sidelights, etc are not being specified in detail. Details and descriptions given are only an indication and the design and sections for windows, doors, sidelights, etc must be discussed with the Architect in detail

**Sizes**

The sizes given are approximate sizes and must not be used for ordering purposes

**Building in**

Prices for windows, doors, sidelights, etc must include for the fixing into position in brick-, concrete-, or steelwork and leaving completely waterproof. On removal of plastic wrapping, joints between frame and plaster must be filled with colour matched silicone sealant

**Prices**

Prices for windows, doors, sidelights, etc must include for coupling mullions etc

All glass are to be as specifried on the ardhitects schedules and comply with SANS 10137, SANS 10400 Part N. All safety glass to comply with SANS 1263:1 and permanently marked as such

The subcontractor's attention is also drawn to the fact that the building in of all aluminium doors, windows, sidelights, etc will be his sole responsibility and that the prices must include for any permanent steel or timber sub-frames etc as may be deemed necessary

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**Note:**

The applicable drawings and specifications for each door, window, sidelight, etc have been annexed to these bills of quantities for tender purposes

**Drawings:**

For details of aluminium doors and windows refer to architect's drawing no.300 REV 0 issued with these bills of quantities

**SUNDRY GALVANISED STEEL WORK**

**Bolts**

1	Bolts	kg	5
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**PRESSED STEEL DOOR FRAMES**

**1,6mm Double rebated frames suitable for 110mm brick walls with three 100mm steel butt hinges**

2	Frame for door 813 x 2032mm high	No	2
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**1,6mm Double rebated frames suitable for 230mm brick walls with three 100mm steel butt hinges**

3	Frame for door 813 x 2032mm high	No	5
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**SUNDRY ALUMINIUM WORK**

**3mm Natural anodised aluminium**

4	50 x 50mm Angle section threshold protectors plugged to brickwork or concrete	m	4
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**ALUMINIUM DOORS AND WINDOWS**

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**Purpose made natural anodised aluminium double glazed windows, with casement frames to comply with AAAMSA Category A2 with clear safety glass, fixed to brickwork, concrete or steel as shown/specified on architects schedules. (refer architects drawing no 300 Rev 0)**

5 Window 4 200 x 1 750mm high overall with twenty one fixed panes, three THOO casements and three SHOO casements with 4mm clear glass (Type W1)

No

2

**Purpose made natural anodised aluminium double glazed shopfront doors, with casement frames to sidelights and toplights to comply with AAAMSA Category A2 with clear safety glass, fixed to brickwork, concrete or steel including brushed stainless steel hinges, flush bolts and rubber edge seals/brushes where applicable as shown/specified on architects schedules. Supply of locks, handles, pull handles, floor springs, door closers, etc to be by main contractor (elsewhere measured)(refer architects drawing no 300 Rev0)**

6 Double casement door with fan light 1 600 x 2 915mm high overall with 8mm clear laminated safety glass to door casement (Type W2)

No

1

**EXISTING ALUMINIUM WINDOWS**

**Take existing aluminium windows from storage and fix in new position to brickwork or concrete**

7 Window 1 200 x 2 915mm high overall

No

2

**Carried Forward to Summary of Section No. 2**

Section No. 2

Bill No. 12

Metalwork

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

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Item No	<b><u>BILL NO 13</u></b>	Quantity	Rate	Amount
	<b><u>PLASTERING</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>SCREEDS</u></b>			
	<b><u>Screeds on concrete</u></b>			
1	28mm Thick on floors and landings	m2	99	
2	Average 40mm thick on floors to falls	m2	76	
	<b><u>INTERNAL PLASTER</u></b>			
	<b><u>One coat cement plaster on brickwork</u></b>			
3	On walls	m2	161	
4	On narrow widths	m2	4	
	<b><u>EXTERNAL PLASTER</u></b>			
	<b><u>One coat cement lime plaster on brickwork</u></b>			
5	On walls	m2	2	
	<b>Carried Forward to Summary of Section No. 2</b>			
	Section No. 2			
	Bill No. 13			
	Plastering			
	<b>iLABS/RFQ/2023/23:252</b>			
	<b>Alterations and Additions to Block N - iThemba Labs</b>			
				R

Item No	<b><u>BILL NO 14</u></b>	Quantity	Rate	Amount
	<b><u>TILING</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	Descriptions Unless described as "fixed with adhesive to plaster (plaster elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:5 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	<b><u>WALL TILING</u></b>			
	<b><u>600 x 600mm Porcelain floor tiles (allow PC amount R450,00/m2 nett delivered to site) laid on screed (screed elsewhere) with porcelain tile adhesive including bonding liquid to manufacturer's specification and flush pointed with approved white grout</u></b>			
1	On walls	m2	116	
2	On walls on narrow widths	m2	3	
	<b><u>FLOOR TILING</u></b>			
	<b><u>600 x 600mm Porcelain floor tiles (allow PC amount R450,00/m2 nett delivered to site) laid on screed (screed elsewhere) with porcelain tile adhesive including bonding liquid to manufacturer's specification and flush pointed with approved grey grout</u></b>			
3	On floors and landings	m2	45	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 14 Tiling <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			

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**SUNDRIES**

**"KIRK M-TRIM" or equally approved natural  
anodised aluminium trims**

4	Code ASQE100 Square edge trim	m	127
5	Code ASQE120 Square edge trim	m	4

**Carried Forward to Summary of Section No. 2**

Section No. 2

Bill No. 14

Tiling

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

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Item No	<b><u>BILL NO 15</u></b>	Quantity	Rate	Amount
	<b><u>PLUMBING AND DRAINAGE</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Plumbing</u></b>			
	Plumbing to comply with SANS 10400 Part P			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>STORMWATER DRAINAGE</u></b>			
	<b><u>uPVC Class 34 pipes</u></b>			
1	110mm Pipes laid at ground level below new concrete walkway	m	5	
	<b><u>SANITARY FITTINGS</u></b>			
	<b><u>"Vaal"</u></b>			
2	"Concorde" Code: CCOBAJBA-2CO0404 white drop-in basin or equally approved	No	6	
3	"Sweetpea" or equally approved top inlet wall-hung urinal	No	1	
4	"Pearl" Code: VAA-730103WH white paraplegic semi close couple boxed suite with purpose made CP side-flush lever and urea seat including F14C cranked rail and F16C cistern rail or equally approved	No	1	
	<b>Carried Forward</b>			R
	Section No. 2 Bill No. 15 Plumbing and drainage <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			



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**"Cobra"**

5	"Shelter" Code: CSHBAWH2-6DT01 white wall-hung basin or equally approved including "Welcome" Code: CWLPERD2-6DT01 semi pedestal or equally approved complete	No	1
6	"Shelter" Code: CSHCCSTI-6DT01 white close coupled toilet suite (3L) or equally approved complete	No	6

**WASTE UNIONS ETC**

**"Cobra"**

7	Code: FWACBS01-OGT01 CP slotted basin waste with clicker plug	No	13
8	Code: FWARBS11-OGT01 CP unslotted urinal waste	No	1

**TRAPS, ETC**

**"Cobra"**

9	Code: FBTRAP03-OGT01 CP bottle trap or equally approved with 300mm CP tail pipe	No	7
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**Approved**

10	40 x 40mm Plain mini P-trap DPE F40 PMP	No	1
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**TAPS, VALVES, ETC**

**"Cobra"**

11	TVAC1408/CH 15mm angle regulating valve with 350mm long braided CP service pipe	No	15
12	Code: FBN1D7BO-OGP01 "Arrive" standard basin mixer	No	6
13	Code: FEAPIEA-4FT01 Medical Pillar Tap with Blue Indice	No	1
14	Code: FEAPIEA-5FJT01 Medical Pillar Tap with Red Indice	No	1

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 Bill No. 15  
 Plumbing and drainage  
**iLABS/RFQ/2023/23:252**  
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**"Cobra Watertech"**

15	22mm 131-22 Brass stop tap	No	2
16	15mm Star 139-15/CP Undertile stop tap	No	1
17	PB1.10 Vacuum breaker	No	1
18	22mm "Masterflo II" pressure reducing valve	No	2
19	"FJ6.000 Flushmaster Junior" urinal flush valve with FJT5.5 flush pipe	No	1

**SANITARY PLUMBING****uPVC Pipes**

20	40mm Pipes	m	14
21	50mm Pipes	m	4
22	110mm Pipes	m	14

**Extra over uPVC pipes for fittings**

23	50 x 40mm Reducer	No	14
24	40mm Bend	No	7
25	50mm Bend	No	2
26	110mm Bend	No	7
27	50mm Junction	No	1
28	110 x 110 x 50mm Reducing junction	No	8
29	110mm Pan connector	No	7
30	40mm Access bend	No	7
31	50mm Access bend	No	2
32	110mm Access bend	No	7
33	110mm Access junction	No	7

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 Bill No. 15  
 Plumbing and drainage  
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**Alterations and Additions to Block N - iThemba Labs**

<b>Brought Forward</b>			
34	110 x 110 x 50mm Access reducing junction	No	1
35	110mm GI two-way vent valve	No	7
<b><u>Sundries</u></b>			
36	Test waste pipe system		Item
<b><u>WATER SUPPLIES</u></b>			
<b><u>Class 1 copper pipes</u></b>			
37	15mm Pipes	m	75
38	22mm Pipes	m	30
<b><u>Extra over class 1 copper pipes for capillary fittings</u></b>			
39	15mm Fittings	No	64
40	22mm Fittings	No	15
<b><u>Extra over class 1 copper pipes for brass compression fittings</u></b>			
41	15mm Fittings	No	50
<b><u>Sundries</u></b>			
42	Testing water pipe system		Item
<b><u>ELECTRIC WATER HEATERS</u></b>			
<b><u>"Kwikot" 100L Superline Model DSG-100-5 water heaters including "KwikTray" polyethelene geyser trays</u></b>			
43	100 Litre horizontal ceiling mounted electric water heater including overflow pipe 5m long	No	1

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**Carried Forward to Summary of Section No. 2**

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 Bill No. 15  
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Item No	<b><u>BILL NO 16</u></b>	Quantity	Rate	Amount
	<b><u>ELECTRICAL INSTALLATION</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>PRELIMINARIES AND GENERAL</u></b>			
	Allow for all costs necessary to complete the works in a satisfactory manner in accordance with the drawings, specifications, SANS Code of Practise, the Local Authorities requirements and to the Engineer's satisfaction including and not limited to the following			
	<b><u>Site Establishment</u></b>			
1	Allow for site establishment and all associated services including storage of plant, materials and equipment and protection thereof	Item		
2	Allow for removal of site establishment	Item		
	<b><u>Supervision</u></b>			
3	Allow for construction supervisor for the duration of the project	Item		
	<b><u>Compliance with health and safety act and applicable regulations</u></b>			
4	Provision of a Health and Safety plan	Item		
5	Provision of a Health and Safety file	Item		
	<b>Carried Forward</b>		R	
	Section No. 2 Bill No. 16 Electrical installation <b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b>			

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R

**"As Built" Drawings**

6 Allow for the provision of a complete set (3 copies) of hard copies and (3 Copies) of electronic copies (CD's) of marked-up record ("As Built") drawings of the final layout of the electrical works on completion of the project

Item

**Testing and Commissioning**

7 Allow for the provision of a Certificate of Compliance in terms of SANS 10142-1 specifications for each completed distribution board. Test shall be carried out by a Master Electrician

Item

**Operating and Maintenance Instruction Manuals**

8 Allow for the preparation and supply of a complete set (4 copies) of hard copies and (4 Copies) of electronic copies (CD's) of operating and maintenance manuals for the complete electrical installation including technical literature, drawings, list of applicable spares and all certificates as specified in the specifications

Item

**Maintenance and Service**

9 Allow for a 12 months maintenance and service period, carried out in quarterly inspections, on all plant and equipment under this contract. This shall include rectifications of any defects in equipment, material and workmanship but wear and tear and normal maintenance excluded

Item

**Guarantee Period**

10 Allow for a 12 months guarantee period on all plant and equipment under this contract. Letters from suppliers to be provided

Item

**LIGHTING AND SMALL POWER**

**CONDUIT AND ACCESSORIES**

**Conduits built-in brickwork and/or fixed to any surface complete with draw wires including bending, threading, jointing, couplings, bends, tees, spacer bar saddles, screws, etc as specified**

Carried Forward

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Section No. 2

Bill No. 16

Electrical installation

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

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**RIGID PVC CONDUIT**

**Chased and/or fixed in brickwork (making good of chase by others)**

11	20mm Diameter	m	66
12	25mm Diameter	m	33
13	32 mm Diameter	m	33

**FLEXIBLE CONDUIT**

**Flexible conduit fixed on to conduit, conduit boxes, etc including all fixing materials, lock nuts, adaptors, etc as specified**

**"Kopex"**

14	20mm Diameter flexible conduit	m	67
15	25mm Diameter flexible conduit	m	12

**CONDUIT BOXES AND FITTINGS**

**Conduit wall boxes and conduit round boxes, one or two or three or four way built-in brickwork and/or fixed to any surface including fixing to conduit with necessary lock nuts, adaptors, bushes, cover plates, screws, etc as specified**

**PVC type fixed onto conduit**

16	Round conduit box for 20mm diameter conduit	No	38
17	Round conduit box for 25mm diameter conduit box	No	12
18	Round conduit box cover	No	50
19	Extension ring for round conduit box	No	50

**DRAW BOXES AND FITTINGS**

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Section No. 2

Bill No. 16

Electrical installation

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

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<b><u>Draw boxes complete with lid built-in brickwork and/or fixed to any surface including fixing to conduit with necessary lock nuts, adaptors, bushes, cover plates, screws, etc as specified</u></b>			
20	Telkom draw box (200 x 200mm)	No	4
<b><u>"Pratley Ezee Fit" junction boxes complete with lid, blanking plugs, terminal rail and 10 "Kwikblok" terminals including fixing to any surface, all fixing material, brackets, fixing to conduit and/or cables with necessary adaptors, locknuts, cable clands, lids, etc. "Kwikblok" terminals and rail to be factory fitted in box</u></b>			
21	Junction box - No 0	No	3
22	Junction box - No 1	No	1
<b><u>POWER SKIRTING</u></b>			
<b><u>Note:</u></b>			
The rates for power skirting shall include for splices, joining, drilling, etc			
<b><u>Galvanised steel epoxy powder coated power skirting complete with cover surface mounted to brickwork or concrete</u></b>			
23	Three-compartment	m	20
<b><u>Extra over power skirting complete with cover for</u></b>			
24	Three-compartment end cap	No	12
25	Three-compartment joint cover	No	2
<b><u>CONDUCTORS</u></b>			
<b><u>Bare stranded copper earth conductors 600/1000V drawn into wireways</u></b>			
26	2,5mm <sup>2</sup>	m	99
27	4mm <sup>2</sup>	m	53

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 Bill No. 16  
 Electrical installation  
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**Alterations and Additions to Block N - iThemba Labs**

Brought Forward			
<b><u>PVC insulated stranded copper conductor 600/1000V drawn into wireways</u></b>			
28	2,5mm <sup>2</sup>	m	198
29	4mm <sup>2</sup>	m	159
<b><u>LIGHT SWITCHES, SWITCHED SOCKET OUTLETS, ETC.</u></b>			
<b><u>Light switches, etc complete with cover plate fixed in flush box. Allowance must be made for 16 Ampere 250V light switch complete with yoke, screws and baked enamel cover plate fixed with two chromium plated raised head counter-sunk screws</u></b>			
30	16A One-lever one-way switch	No	7
31	16A One-lever two-way switch	No	2
<b><u>Switched socket outlets on power skirtings to match existing. Allowance must be made for 16 Ampere 250V switched socket outlet complete with yoke, screws and baked enamel cover plate fixed with two chromium plated raised head counter-sunk screws</u></b>			
32	16A "Crabtree" White Classic Slimline combo socket and yoke nr. 6867/001P or equally approved	No	14
<b><u>Isolators complete with cover plate, screws, etc installed on power skirting</u></b>			
33	20A Double-pole isolator	No	5
<b><u>TELEPHONE AND DATA OUTLETS</u></b>			
<b><u>Telephone and data outlets on power skirtings to match existing complete with yoke, screws and baked enamel cover plate fixed with two chromium plated raised head counter-sunk screws</u></b>			
34	Data outlets	No	14
35	Telephone outlets	No	4

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Carried Forward

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Section No. 2  
 Bill No. 16  
 Electrical installation  
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**Alterations and Additions to Block N - iThemba Labs**



<b>Brought Forward</b>		
<b><u>Supply and install SANS approved luminaires and accessories as specified on the plans complete with lamps, connections, etc mounted in position</u></b>		
36	600 x 600mm 30 Watt LED 4K with cord set and backlit drop-in panel	No 32
37	EXIT	No 1
<b><u>SUNDRIES</u></b>		
<b><u>Testing and commissioning</u></b>		
38	Allow for testing, balancing and commissioning the complete electrical installation	Item
<b><u>FIRE DETECTION</u></b>		
<b><u>FIRE DETECTION EQUIPMENT</u></b>		
<b><u>Field Equipment</u></b>		
39	Photo-electric (optical) smoke detector complete	No 4
40	LED	No 4
41	Heat detector complete	No 4
42	Standard surface mount detector base complete	No 4
43	Sundry installation material and accessories	Item
<b><u>CABLING AND FLEXIBLE CONDUIT EXTENSIONS</u></b>		
<b><u>Fire Detection Cabling</u></b>		
44	1mm <sup>2</sup> Fire retardant cabling (PH30) - Red	m 56
<b><u>Metal Flex Conduit (Sprag) including connectors and all other miscellaneous items required to make the installation complete</u></b>		
45	25mm Conduit	m 26
46	Labelling of devices	Item
<b>Carried Forward</b>		

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47 Sundry cabling and accessories Item

**SUNDRIES**

**Attendance, etc**

48 Attendance on Fire Detection Systems sub-contractor Item

**SECURITY**

**ACCESS CONTROL**

**Field Equipment**

49 Request-to-Exit Pushbutton on stainless steel face plate, complete with fixing plate and all other miscellaneous items required to make the installation complete No 1

50 Magnetic lock, 12Vdc, fail unsecured, including fixing plates, Z-bracket, etc. Stainless steel front and side mount magnetic lock 800lbs No 1

51 Emergency Break-Glass-Unit, Green, including all other miscellaneous items required to make the installation complete No 1

52 Sundry installation material and accessories Item

**SUNDRIES**

**Attendance, etc**

53 Extra work per door for conduit and boxes for door monitors (conduit and boxes measured elsewhere) No 1

54 Extra work per door for conduit and boxes for electric strikes No 1

55 Attendance on Access Control sub-contractor Item

**Carried Forward to Summary of Section No. 2**

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Section No. 2

Bill No. 16

Electrical installation

**iLABS/RFQ/2023/23:252**

**Alterations and Additions to Block N - iThemba Labs**

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO 17</u></b></p>			
<p><b><u>MECHANICAL INSTALLATION</u></b></p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p>The bill shall be read in conjunction with the project drawings and project specifications</p>			
<p><b><u>Trade names</u></b></p>			
<p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p>			
<p><b><u>DUCTING AND EQUIPMENT</u></b></p>			
<p><b><u>Ductwork</u></b></p>			
<p>Where transformations or reducers occur the larger size ductwork has been measured through the fitting. Descriptions of ductwork shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification</p>			
<p><b><u>Dampers</u></b></p>			
<p>Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts</p>			
<p><b><u>Air Diffusion</u></b></p>			
<p>Descriptions of air terminals, grilles, louvres and the like shall be deemed to include necks, frames, supports and flexible connections</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2  Bill No. 17  Mechanical installation  <b>iLABS/RFQ/2023/23:252</b>  <b>Alterations and Additions to Block N - iThemba Labs</b></p>		R	

**Brought Forward**

R

**Fans**

Descriptions of fan assemblies shall be deemed to include supports from the structure, flexible or other connections to ductwork, vibration isolation mountings and airtight inspection doors

**Sound attenuators**

Descriptions of sound attenuators shall be deemed to include flanged or flexible connections to ductwork and supports from the structure

**Fan coil units, fan air terminals and fan heaters**

Descriptions of fan coil units, fan air terminals and fan heaters shall be deemed to include connection points for water, air and electrical, air grilles, dust trays, condensate trays and vibration isolation mountings. Flexible ducting, flexible hose and connecting cables for connecting these units to each other or to water piping and electrical supply are separately measured

**Major equipment**

Descriptions of major equipment such as chillers, air handling units and the like shall be deemed to include connections to water, air and electrical supply and/or discharge points, supports, bearers, vibration isolation mountings, filters, insulation, inspection ladders and gangways, access doors and panels, painting, etc as specified

**Standing blocks**

Provide paver slabs/standing blocks for equipment, fix unistruts to paver slab/standing blocks and bond & waterproof to roof slab with mastic sealed wareproofing layer. Do not pierce roof waterproofing layer

**PRELIMINARIES AND GENERAL**

The bill shall be read in conjunction with the project drawings and project specifications

**Carried Forward**

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Allow for all costs necessary to complete the works in a satisfactory manner in accordance with the drawings, specifications, SANS Code of Practise, the Local Authorities requirements and to the Engineer's satisfaction including and not limited to the following

- |    |   |      |
|----|---|------|
| 1  | Compliance with main contract Preliminaries and General   | Item |
| 2  | Compliance with main contractor's Terms and Conditions  | Item |
| 3  | Compliance with Sub-contract Terms and Conditions   | Item |
| 4  | Purchase of original JBCC selected Sub-contract Agreement and signage thereof   | Item |
| 5  | Refer to Standard Specification Part IV. Compliance with Clauses 1.1 to 1.13 all inclusive  | Item |
|    | Refer to Standard Specification Part IV.80 Standard Specification for Protection, Cleaning, Adjustments, Commissioning, Tests and Maintenance Manuals |      |
| 6  | Compliance with Clause 80.1 Protection and Cleaning   | Item |
| 7  | Compliance with Clause 80.2 Adjustments and Commissioning   | Item |
| 8  | Compliance with Clause 80.3 Tests   | Item |
| 9  | Compliance with Clause 80.4 Maintenance and Operating Manuals   | Item |
| 10 | As-Built drawings in compliance with the Specifications   | Item |
| 11 | Workshop drawings in compliance with the Specifications   | Item |
| 12 | Staff training in compliance with the Specifications  | Item |
| 13 | 12 months Maintenance and Guarantee   | Item |
| 14 | Liaison and coordination with the main builder and other contractors  | Item |
| 15 | Meeting attendance throughout the project   | Item |

**Carried Forward**

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- |    |   |  |      |  |
|----|---|--|------|--|
| 16 | Engineering and Supervision                 |  | Item |  |
| 17 | Compliance Health and Safety Specifications |  | Item |  |

**AIR DISTRIBUTION**

**AIR CONDITIONING SPLIT SYSTEM**

**Install "Carrier" high wall and hide away split units both indoor and outdoor unit to the size and capacity of the project specifications and drawings inclusive of all components, instrumentation, sensors, supports, hangers, vibration isolators with brackets, teco pads, piping, refrigerants, controls, interconnecting electrical and control conduits, outlet box, hard wired controller and chasing where required. Pricing per unit to include insulated refrigeration piping (gas and liquid lines) between indoor and outdoor units, provision for cable trays and inclusive of trunking waterproofed and painted where refrigeration piping runs outside and electrical wiring from weatherproof isolator to outdoor unit**

- |  |   |    |  |    |
|--|---|----|--|----|
| 18   | 9000 Btu Inverter ceiling cassette 4-way blowing AC unit  | No |  | 2  |
| 19   | 18000 Btu Inverter ceiling cassette 4-way blowing AC unit | No |  | 3  |
| <b><u>Supply and install insulated condensate drain piping from indoor units complete with fittings, saddles, hangers, trays, etc and P-traps as indicated</u></b> |   |    |  |    |
| 20   | 25mm Diameter   | m  |  | 15 |

**Carried Forward to Summary of Section No. 2**

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Section No. 2  
 Bill No. 17  
 Mechanical installation  
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Item No	<b><u>BILL NO 18</u></b>	Quantity	Rate	Amount
	<b><u>GLAZING</u></b>			
	For preambles refer to "Model Preambles for Trades"			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<b><u>Trade names</u></b>			
	Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders			
	<b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b>			
	<b><u>4mm Silvered float glass silver backed mirrors 25mm bevelled edges holed for and fixed with chrome capped anthi-theft mirror screws and "Den Braven Mirrorfix" MS silicon or equally approved to plaster</u></b>			
1	Mirror, size 450 x 900mm high with 6 screws	No	1	
2	Mirror, size 2000 x 9000mm high with 8 screws	No	1	
3	Mirror, size 2300 x 900mm high with 8 screws	No	1	
	<b>Carried Forward to Summary of Section No. 2</b>			R
	Section No. 2			
	Bill No. 18			
	Glazing			
	<b>iLABS/RFQ/2023/23:252</b>			
	<b>Alterations and Additions to Block N - iThemba Labs</b>			

Item No	Quantity	Rate	Amount
<p><b><u>BILL NO 19</u></b></p>			
<p><b><u>PAINTWORK</u></b></p>			
<p>For preambles refer to "Model Preambles for Trades"</p>			
<p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>			
<p><b><u>Trade names</u></b></p>			
<p>Wherever a trade name for any product has been described, the Tenderer's attention is drawn to the fact that any other product of equal quality and durability may be used subject to the written approval being obtained prior to the closing date for submission of tenders</p>			
<p><b><u>Descriptions</u></b></p>			
<p>Description of paintwork shall be deemed to include for the preparation of surfaces, including filling, stopping, sanding, priming, of nail heads and screws and for all cutting in</p>			
<p>Descriptions of paint on pipes, gutters, etc, shall be deemed to include for painting holderbats, hangers, clips, brackets, etc</p>			
<p>Descriptions of paint on windows, sashes, etc, shall be deemed to include for priming the rebates of the openings to be glazed</p>			
<p><b><u>PREPARATORY WORK TO EXISTING WORK</u></b></p>			
<p><b><u>Previously painted plastered surfaces</u></b></p>			
<p>Surfaces shall be washed down and allowed to dry completely before paint is applied. Blistered or peeling paint to existing surfaces shall be removed to ensure a clean, sound and dry surface without any powdering including completely removing limewash by wirebrushing. Scrape all plaster cracks open and fill with suitable filler and finish smooth.</p>			
<p><b>Carried Forward</b></p>			
<p>Section No. 2 Bill No. 19 Paintwork</p>			
<p><b>iLABS/RFQ/2023/23:252</b> <b>Alterations and Additions to Block N - iThemba Labs</b></p>			
		R	



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**Uncoated existing concrete surfaces**

Surfaces shall be washed down with Aquasolv Degreaser to remove any oil, grease and other contaminants, rinse thoroughly with fresh water and dry by vacuuming to prevent excessive water absorption. Allow to required moisture content.

**Previously painted metal surfaces**

Blistered or peeling paint to existing surfaces shall be removed to ensure a clean, sound and dry surface without any powdering including sanding down of existing paint with a fine grain sand paper to achieve a matt finish and the removal of all rust including the treatment of rust patches with a suitable rust remover.

**Previously painted wood surfaces**

Blistered or peeling paint/varnish to existing surfaces shall be removed to ensure a clean, sound and dry surface without any powdering including sanding down of existing paint with a fine grain sand paper to achieve a matt finish. Cracks shall be primed, filled with a suitable filler and finished smooth.

**PAINTWORK ETC TO PREVIOUSLY PAINTED WORK**

**ON FLOATED PLASTER**

**Two coats "Plascon Professional Low Sheen Pure Acrylic" paint on**

1	On internal walls	m2	285
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**PAINTWORK ETC TO NEW WORK**

**ON FLOATED PLASTER**

**One coat skim fill, one coat "Plascon Plaster Primer (UC56)" or equally approved and two coats "Plascon Velvaglo" or equally approved paint on**

2	Internal walls	m2	161
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Section No. 2  
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Paintwork

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	<u>One coat skim fill, one coat "Plascon Plaster Primer (UC56)" or equally approved and two coats "Plascon Micatex" or equally approved paint on</u>	
3	External walls	m2 2
	<b><u>ON FIBRE CEMENT</u></b>	
	<u>Three coats approved matt varnish</u>	
4	On window sills	m2 1
	<b><u>ON METAL</u></b>	
	<u>Clean surfaces with one coat "Plascon Galvanised Iron Cleaner", one coat "Plascon Galvanised Iron Primer", one coat "Plascon All Purpose Undercoat" and two coats "Plascon Professional Eggshell Enamel" paint on</u>	
5	Rails, bars, pipes, etc not exceeding 300 mm girth	m 154
	<b><u>ON WOOD</u></b>	
	<u>One coat "Plascon Professional Wood Primer" and two coats "Plascon Velvaglo Polyurethane Enamel" paint on</u>	
6	Doors	m2 50
7	Door frames	m2 22
	<u>Three coats approved matt varnish</u>	
8	Skirtings, rails, etc not exceeding 300 mm girth	m 91

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**Carried Forward to Summary of Section No. 2**

Section No. 2

Bill No. 19

Paintwork

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Alterations and Additions to Block N - iThemba Labs

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