



VOLUME 3 OF 3

THE CONTRACT

DEVELOPMENT BANK OF SOUTHERN AFRICA

TENDER NO. RFP041/2022

APPOINTMENT OF A CONTRACTOR FOR CONSTRUCTION OF ADDITIONAL LEARNING AREAS AND RENOVATIONS OF EXISTING INFRASTRUCTURE AT GOAKGANYA PRIMARY SCHOOL ON BEHALF NORTH WEST DEPARTMENT OF EDUCATION

Implementing Agent: Development Bank of Southern Africa Limited 1258 Lever Road Midrand Johannesburg Gauteng 1685 Contact: 011 313 3911 As per Tender Notice and Invitation	Project Manager Owethu Sisilana 1258 Lever Road Midrand Johannesburg Gauteng 1685 Contact: 011 313 3911 As per Tender Notice and Invitation
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Notes:

The Tender Document must be submitted as a whole. All forms must be properly completed as required and the document shall not be taken apart or altered in any way whatsoever.

All forms must be duly completed in **black ink** as required.

The list of returnable documents, which consists of forms and schedules to be completed and company specific certificates and information pages to be attached, comprise the following:

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THE CONTRACT

- C1 : AGREEMENT AND CONTRACT DATA**
- C2 : PRICING DATA**
- C3 : SCOPE OF WORK**
- C4 : SITE INFORMATION**

PART 1: AGREEMENT AND CONTRACT DATA

JBCC Principal Building Agreement (Edition 4.1 Code 2101 of March 2005) issued by the Joint Building Contracts Committee Inc. (including amendments).

Document reference	Title	No of pages
C1.1	Form of Offer and Acceptance	4
C1.2	Contract Data	1
C1.2.1	Conditions of Contract	5
C1.2.2	Contract Specific Data	6
C1.3	Construction Guarantee	4
	Total number of pages	20

C1.1 FORM OF OFFER AND ACCEPTANCE

C1.1.1 Offer

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of: **TENDER No: RFP041/2022 – DESCRIPTION: APPOINTMENT OF A CONTRACTOR FOR CONSTRUCTION OF ADDITIONAL LEARNING AREAS AND RENOVATIONS OF EXISTING INFRASTRUCTURE AT GOAKGANYA PRIMARY SCHOOL ON BEHALF OF NORTH WEST DEPARTMENT OF BASIC EDUCATION(DBE)**

The tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the tenderer offers to perform all of the obligations and liabilities of the service provider under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VALUE ADDED TAX IS:

Rand.....
.....(in words);
R (in figures).

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the service provider in the conditions of contract identified in the contract data.

Signature

Name

Capacity

For the tenderer

Name of Tenderer

Address of Tenderer)

Name of witness.....

Signature of witness Date

1.1 FORM OF OFFER AND ACCEPTANCE (Continued)

C1.1.2 Acceptance

By signing this part of this form of offer and acceptance, the Employer identified below accepts the tenderer's offer. In consideration thereof, the Employer shall pay the service provider the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the tenderer's offer shall form an agreement between the employer and the tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

- Part C1: Agreements and contract data, (which includes this agreement)
- Part C2: Pricing data
- Part C3: Scope of work.
- Part C4: Site information

and the schedules, forms, drawing and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the Tender Data and any addenda thereto listed in the Tender Schedules as well as any changes to the terms of the Offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the Schedule of Deviations attached to and forming part of this Agreement. No amendments to or deviations from said documents are valid unless contained in this Schedule, which must be duly signed by the authorized representatives of both parties.

The Tenderer shall deliver the security in terms of Clause 14 of the JBCC 2005 within the period stated in the contract Data, and he shall, immediately after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contract the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any other bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data, within 14 days of the date on which this Agreement comes into effect. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this Agreement.

Notwithstanding anything contained herein, this Agreement comes into effect on the date when the Tenderer receives one fully completed original copy of this document, including the Schedule of Deviations (if any). Unless the Tenderer (now Contractor) within five days of the date of such receipt notified the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding contract within parties.

Signature

Name

Capacity

**for the
Employer** **Development Bank of Southern Africa Limited**
1258 Lever Road, Headway Hill,
Midrand, Gauteng Province

Name of witness

Signature of witness Date

Schedule of Deviations

The extent of deviations from the Tender documents issued by the Employer prior to the Tender closing date is limited to those permitted in terms of the Tender Data and the Conditions of Tender.

A Tenderer's covering letter will not necessarily be included in the final contract document. Should any matter in such letter, which constitutes a deviation as aforesaid becomes the subject of agreements reached during the process of offer and acceptance, the outcome of such agreement shall be recorded here.

Any other matter arising from the process of offer and acceptance either as a confirmation, clarification or change to the Tender documents and which it is agreed by the Parties becomes an obligation of the contract shall also be recorded here.

Any change or addition to the Tender documents arising from the above agreements and recorded here shall also be incorporated in to the final draft of the Contract.

1 Subject

Details

.....
.....

2 Subject

Details

.....
.....

3 Subject

Details

.....
.....

4 Subject

Details

.....
.....

5 Subject

Details

.....
.....

By the duly authorized representatives signing this Schedule of Deviations, the Employer and the Tenderer agree to and accept the foregoing Schedule of Deviations as the only deviations from the amendments to the documents listed in the Tender Data and addend thereto as listed in the Tender Schedules, as well as any confirmation, clarification or change to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the Tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this Agreement.

For the Tenderer:

Signature(s)

Name(s)

Capacity

Name of Tenderer

Address of Tenderer

.....

Name of witness

Signature of witness Date

For the Employer:

Signature(s)

Name(s)

Capacity

Name of Employer: **Development Bank of Southern Africa Limited**

Address of Employer 1258 Lever Road, Headway Hill, Midrand, Gauteng Province

Name of witness

Signature of witness Date

C1.2 CONTRACT DATA

Document reference	Title	No of pages
C1.2	Contract Data	1
C1.2.1	Conditions of Contract	5
C1.2.2	Contract Specific Data	6
C1.3	Construction Guarantee	4
	Total number of pages	16

C1.2.1 CONDITIONS OF CONTRACT

GENERAL CONDITIONS OF CONTRACT

The Conditions of Contract are clauses 1 to 41 of the **JBCC PRINCIPAL BUILDING AGREEMENT, EDITION 4.1 CODE2101 MARCH 2005** published by the Joint Building Contracts Committee.

Copies of these conditions of contract may be obtained from the Association of South African Quantity Surveyors (011-3154140), Master Builders Association (011-205-9000; 057-3526269) South African Association of Consulting Engineers (011-4632022) or South African Institute of Architects (051-4474909; 011-4860684; 053-8312003;)

The JBCC Principal Building Agreement makes several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the JBCC Principal Building Agreement.

Each item of data given below is cross-referenced to the clause in the JBCC Principal Building Agreement to which it mainly applies.

The Conditions of Contract make several references to the Contract Data for specific data, which together with these conditions collectively describe the risks, liabilities and obligations of the contracting parties and the procedures for the administration of the Contract. The Contract Specific Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Conditions of Contract or the Special Conditions of Contract.

The Contract Specific Data, General and Special Conditions of Contract shall have precedence over the Drawings, Scope of Work and Standardised Specifications in the interpretation of any ambiguity or inconsistency.

SPECIAL CONDITIONS OF CONTRACT

1. GENERAL

These Special Conditions of Contract (SCC) form an integral part of the Contract. The Special Conditions of Contract shall amplify, modify or supersede, as the case may be, the Conditions of Contract of JBCC 2005 to the extent specified below, and shall take precedence and shall govern in the interpretation of any ambiguity or inconsistency between it and the Conditions of Contract.

The clauses of the Special Conditions hereafter are numbered "SCC" followed in each case by the number of the applicable clause or sub clause in the JBCC 2005, and the applicable heading, or (where a new special condition that has no relation to the existing clauses is introduced) by a number that follows after the last clause number in the Conditions, and an appropriate heading.

The Forms included in the JBCC Edition 4.1, Code 2101, March 2005 ("JBCC2005"), are replaced with the Forms included in this Tender Document.

2. AMENDMENTS TO THE JBCC 2005 CONDITIONS OF CONTRACT

SCC 1.1 Definitions and Interpretation

SCC 1.5 The following new paragraphs are added after clause 1.5.6:

1.5.7 References to any party to this **agreement** include its successors or permitted assigns;

1.5.8 References to the **contractor** include the obligations of its personnel;

1.5.9 References to "month" shall be to a calendar month;

1.5.10 References to any amount shall mean that amount exclusive of VAT, unless the amount expressly includes VAT;

1.5.11 References containing terms such as "best endeavours" when used in connection with an obligation of either party, means taking in good faith and with due diligence all reasonable steps to achieve the objective and to fulfil the obligation at the earliest possible time, including doing all that a reasonable and prudent owner or provider of design and construction services in comparable circumstances would do.

1.5.12 If a definition imposes substantive rights and obligations on a party, such rights and obligations shall be given effect to and shall be enforceable, notwithstanding that they are contained in a definition;

1.5.13 Where any word is defined within the context of any particular clause in this agreement, that word, unless it is clear from the clause in question that that word has limited application only to the relevant clause, shall bear the meaning ascribed to it for all purposes in terms of this agreement, notwithstanding that that word has not been defined in clause 1.1;

1.5.14 Words defined in this agreement shall bear the same meanings in any annexes or schedules to this agreement unless the annexes or schedules contain their own definitions of such words;

1.5.15 Where any number of days is prescribed, those days shall be reckoned exclusively of the first and inclusively of the last day unless the last day falls on a day that is not a working day, in which event the last day shall be the next succeeding working day;

1.5.16 Words and abbreviations that have well known technical or trade meanings are used in the agreement in accordance with such recognized meanings;

1.5.17 The rule of construction that if general words or terms are used in association with specific words or terms that are a species of a particular genus or class, the meaning of the general words or terms shall be restricted to that same class shall not apply, and whenever the word "*including*" is used followed by specific examples, such examples shall not be interpreted so as to limit the meaning of any word or term to the same genus or class as the examples given;

1.5.18 The rule of construction that the agreement shall be interpreted against or to the disadvantage of the party responsible for the drafting or preparation of this agreement shall not apply."

SCC 1.10 Add the following new Clause:

"**SCC 1.10** The copyright in all **contract documents**, **contract drawings** and records (irrespective of who prepared any of the aforesaid) related in any manner to the **works** shall vest in the **employer** and the **contractor** shall not furnish any information in connection with the **works** to any person or organization without the prior written approval of the **employer** to this effect other than subcontractors appointed for purposes of this **agreement**."

SCC 1.11 Add the following new Clause:

Any provision in this **agreement** that is or may become illegal, invalid or unenforceable in any jurisdiction shall be ineffective to the extent of such prohibition or unenforceability in such jurisdiction and shall be treated as severed from the balance of this **agreement** in such jurisdiction, without invalidating the remaining provisions of this **agreement** in such jurisdiction or affecting it in any other jurisdiction

SCC 3.5 Delete sub-clause 3.5 **SCC 3.7** Replace the second sentence starting in line 2 with the following:

“The **contractor** shall keep a copy of all drawings, schedules, **priced bills of quantities/lump sum document, contract instructions**, minutes of site and other meetings, health and safety files as specified in the scope of work, risk register, claims and variation order register, labour records and subcontractors contracts on the **site** to which the **employer, principal agent** and **agents** shall have access at all times. The **employer** has the right to call for such further information from the **contractor** it deems necessary in the event it carries out any investigation or audit into potential fraud, corruption, fronting, health and safety incidents or verifying information the **contractor** has to supply to the **employer** in terms of this agreement. The Contractor shall ensure a similar right for the Employer with its subcontractors.

SCC 3.10 In sub-clause 3.10 in the first line replace “**principal agent**” with “**employer**”

SCC 4 **Clauses 4.1, 4.2 and 4.3 are deleted and replaced or amended as follows:**

“**4.1** The **contractor** shall be responsible for the design of the **works**, including for any temporary works. The **contractor** shall be responsible for the primary coordination of design elements. All designs must be submitted to the Principal Agent and Employer for approval prior to construction of the works.

4.2 The **contractor** shall be responsible for any design of **works** undertaken by any subcontractor, including **nominated** or **selected subcontractor**.

4.3 in second line delete the word “**selected**”

SCC 7 COMPLIANCE WITH LAWS AND REGULATIONS

Add the following:

“7.3 The Occupational Health and Safety Act No. 85 of 1993 and the Construction Regulations 2014 will in all respects be applicable to this contract. All obligations in respect of health and safety requirements of the Contractor are set out in the Scope of Work”

7.3.1 Contractor’s liability as mandatory

“Notwithstanding any actions which the **employer** may take, the **contractor** accepts sole liability for due compliance with the relevant duties, obligations, prohibitions, arrangements and procedures imposed by the Occupational Health and Safety Act, 1993 (Act 85 of 1993), and all its regulations, including the Construction Regulations, 2014, for which the **contractor** is liable as mandatory. By entering into this **agreement** it shall be deemed that the parties have agreed in writing to the above provisions in terms of Section 37 (2) of the Act and will enter into the mandatory agreement as set out in the Scope of Work. This clause will be sufficient to establish the mandatory obligations of the **contractor** in the event the parties fail to execute the aforesaid mandatory agreement.”

SCC 14

Amend sub-clause 14.1

Retain sub-clause 14.1 but amend to read: “The **employer** shall have the right to choose the **security** to be provided in terms of 14.3 or 14.4 as stated in the **schedule**. The **contractor** shall provide the **security**

required or chosen by the **employer** in the **schedule** substantially in the format prescribed in the tender documents that the **contractor** submitted a tender offer. The required **security** shall be provided in the time period prescribed by the **employer** in the conditional letter of acceptance of the **contractor's** tender offer.

Amend sub-clause 14.3

Retain clause 14.3 but in the last line of sub-clause 14.3.1 replace "twelve point five (12.5%)" with "ten (10%)".

Amend sub-clause 14.4

Retain clause 14.4 but in the last line of sub-clause 14.4.1 replace "seven point five (7.5%)" with "ten (10%)".

Retain sub-clauses 14.5; 14.6 and 14.8 as is.

Amend sub-clause 14.7

Retain sub-clause 14.7 but in sub-clause 14.7.1 in the second and third line amend "two point five (2.5%)" to read "five (5%)".

Add sub-clause 14.9

"A payment reduction of five (5%) of the value of each **payment certificate** up to a maximum of five (5%) of the **contract sum** will be applied until **practical completion**. At **practical completion** the amount withheld will be reduced to two point five (2.5%), which amount will reduce to nil (0%) when the **final account** is issued.

SCC 15.1.1 Amend sub-clause 15.1

In sub-clause 15.1 replace "**principal agent**" with "**employer**"

SCC 19 Delete clause 19 in its entirety and replace it with the following:

19.1 The **contractor** does not cede, delegate or assign any of its rights or obligations to any person.

19.2 Notwithstanding the above, the **employer** may, on written notice to the **contractor**, cede and delegate, handover, its rights and obligations under this contract to a Related Party or a Client of the employer. On cession the Client becomes the **employer** and takes full responsibility. For the purpose hereof the above clause:

19.2.1 a "Related Party" means any entity that directly or indirectly, through one or more intermediaries, controls or is controlled by, or is under common control with the employer and includes any other "Organ of State" as defined in section 239 of the Constitution of the Republic of South Africa, 1996 and any entity or Organ of State for whom the Employer carries out the works or acts as an implementing agent, ("control" means the beneficial ownership of the majority in number of the issued equity of any entity (or the whole or majority of the entity's assets), and/or the right or ability to direct or otherwise control the entity or the votes attaching to the majority of the entity's equity and "controlled" or "under common control" shall have a similar meaning); and

Client means the owner, funder and or sponsor of the project and or programme managed in terms of the MOA between the Client and DBSA

SCC 21 Replace sub-clause 21.1.2 to 21.1.4 and 21.2 to 21.6 with the following:

"The **contractor** and principal agent shall appoint a selected subcontractor in accordance with the

provisions of the Scope of Work.”

SCC 23 Amend clause 23

Add sub-clause 23.3

“The **contractor** may not subcontract the whole of the work without the written instruction or approval of the **employer**. In such event the **employer** may require the **contractor** to cede the contract to the subcontractor.”

Add sub-clause 23.4

“The subcontractors appointed by the **contractor** to comply with the developmental and transformation requirements from the **employer** in terms of applicable legislation, including but not limited to the Preferential Procurement Policy Framework Act, 5 of 2000, and regulation thereto, will be domestic subcontractors for purposes of this **agreement**, and sub-clauses 23.1 and 23.2 will apply accordingly.

Add new clause 23.5

The **contractor** shall submit the **agreement** for each subcontract to the Principal Agent and may redact all commercially sensitive information.

Add new clause 23.6

Contractors failure to pay Subcontractors

If the **contractor** fails to make payment of any amount due and payable to a subcontractor (“the **Subcontractor debt**”) and the Principal Agent considers that the subcontractor debt has an adverse impact(s) on the progress of the works or the obligations of the **contractor** under the **agreement**, the Principal Agent may request evidence of payment to the subcontractor. In the absence of such evidence, the **employer** may (at its own discretion) pay the subcontractor debt directly to the subcontractor concerned. Such payment is, for all purposes under the **agreement**, regarded as a payment made on behalf of the **contractor** and at the request of and with the approval and consent of the **contractor**, as a payment towards the contract sum. As such, payment to the contractor shall be less the payment to the subcontractor.

All adverse effects as a result of or arising from the subcontractor debt does not entitle the **contractor** to any cost or time.

SCC 30.1 Replace reference to “36.3” at end of sentence with “36.0”

SCC 31.9 Sub-clause 31.9 is hereby amended by the substitution of the words "seven (7) **calendar days**" the first line by the words "thirty (30) **calendar days**"

SCC 31.12 Delete “Payment shall be subject to the **employer** giving the **contractor** a **tax** invoice for the amount due.”

SCC 34.13 Delete the words in sub-clause 34.13 “subject to the **employer** giving the **contractor** a **tax** invoice for the amount due”

SCC 40.0 Retention of clause 40 in respect of dispute settlement in its original form not applying the state clause amendments.

SCC 41.0 Clause 41 State Substitutions is amended as set out below with reference to sub-clause 41.1 or the original clause number stated therein.

In sub-clause 41.1.3: delete the definition for **CONSTRUCTION PERIOD**;

clause 39.2 to be amended as follows:

delete the third sentence and replace with the following:

“The **employer** shall pay the **contractor** all amounts due in terms of the contract for work completed at the date of termination or cancellation in terms of this clause 39.2, including retention money after deducting any amounts due to the **employer**. The **employer** will also return any guarantees still valid to the **contractor** after such cancellation.”

Clauses 39.2.1 to 39.2.3 no clause

SCC 41.0 Add sub- clause 41.1.4

Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**, or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a stated date and withdraw himself from the **site**. The contractor shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever.

C1.2.2 CONTRACT SPECIFIC DATA

Part One - Data provided by the *Employer*

42.1.1 The Employer is the **Development Bank of Southern Africa Limited**

The address of the Employer is:

Address (physical): 1258 Lever Road, Headway Hill, Midrand, 1685

Address (postal): P.O. Box 1234, Halfway House, Midrand, 1685

Telephone: (011) 313 3911

Facsimile: (011) 313 3086

42.1.2 The Principal Agent: ***Projectneers***

Telephone: ***011 043 1307***

Facsimile: ***086 440 0186***

Electronic mail: ***technical@projectneers.com***

Address (physical): ***94 Bekker Road, Building 2, 1st Floor, Thornhill Office Park,
Midrand, 1685***

Address (postal): ***N/A***

42.2.1 The Works to be carried out by the Contractor under this Contract comprise mainly the following:

Work Package	Project Description	Scope
1	Construction of additional Learning Areas and Renovation of Existing Infrastructure at Goakganya Primary School in the North West Province	<p>1. Architectural</p> <p>The scope of work entails the construction of the following infrastructure at Goakganya Primary School.</p> <ol style="list-style-type: none"> Administration Block Grade R Classroom Block Science Laboratory Block Multi-Media Center Block 3 x Classroom Block A 3 x Classroom Block B 2 x Classroom Block Nutrition Center Guard House Refuse Yard Pump Room Boundary Fence and gate School name board and signage Existing Ablutions - New Paving around existing ablutions, existing Ablutions to be linked to the New Covered Walkway and make Good existing Ablutions Covered Walkway Sporting Facilities Paved and covered parking Food garden Landscaping Demolitions <ul style="list-style-type: none"> Demolish the existing old classroom Block, existing carport, septic tank, remove old existing fence and equipment on the children's play area Break down and demolish existing building size approximately 40 000mm long x 9 000mm wide x 3100mm high with two gable ends, including cutting the foundation wall, strip footings, windows, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the building (5 Classroom block) Carefully disconnect electrical installation and electrical fittings, under the supervision of a qualified electrician and in consultation with the Electrical Engineer to four classroom blocks

		<ul style="list-style-type: none"> • Break down and demolish existing carport size approximately 10370mm long x 11810mm wide x 3100mm high complete including cutting the foundation wall, strip footings, columns, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the carport • Break down and demolish existing carport size approximately 6220mm long x 5150mm wide x 3100mm high complete including cutting the foundation wall, strip footings, columns, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the carport <p>u) Decanting facilities</p> <ul style="list-style-type: none"> • New Office Cabins x 2 • New Classroom Cabins x 5 • Existing Classroom Cabins x 2 • Drinking water points • Temporary Paved Parking • Temporary Paved Assembly Square • Temporary paved uncovered walkways • Temporary services (water, sewer, stormwater, roads and parking) <p>2. Electrical Engineering:</p> <ul style="list-style-type: none"> • Upgrading of the main electrical supply to the school • Incoming power supply installation • Low voltage power reticulation within the school premises on new buildings • Small power installations • Provision of power supply to mechanical equipment • Interior lighting installations • Exterior lighting installations • Intercommunication system installations • Independent interval bell sounder system installations • Earthing and lightning protection • Data and telephone points <p>3. Civil Engineering</p> <p>a) Searching, protection and relocation/lowering of existing services</p> <p>b) Site clearance, clearing and grubbing</p> <p>c) Bulk Earthworks</p>
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		<p>d) Soccer ground and Kombi court</p> <p>e) Sewer Pipe works</p> <p>f) Septic Tank and Soak away</p> <p>g) Water Pipe works</p> <p>h) Concrete works (v-drains, benching and septic tanks)</p> <p>i) Roads, parking signs and markings</p> <p>j) Finishing of the road and clearing the site</p> <p>a) Searching, protection and relocation/lowering of existing services</p> <p>Before commencement of works the Contractor shall search for all existing services, and protect and relocate in accordance with Resident Engineer and Service provider specifications.</p> <p>b) Site clearance, clearing and grubbing</p> <p>All vegetation and debris within the limits of construction (except as designated to remain) shall be cleared, grubbed, removed, and disposed of. All vegetation and objects to remain shall be protected in keeping with the EIA recommendations. All construction debris may be placed in containers and removed from site. The disposal requirements as with "hazardous" debris shall be determined by the Contractor in accordance with the relevant SANS standards.</p> <p>c) Bulk Earthworks</p> <p>The Contractor in accordance with approved bulk earthworks plans, and all applicable codes adopted and enforced by relevant agency, if any, shall implement all site/grading, erosion, and sediment control mechanism. The contractor shall provide all materials necessary for the platforms of the buildings before the commencement of excavation. Excavation shall be carried out according to the drawings or as directed by Resident Engineer on site.</p> <p>d) Sewer Pipe works</p> <p>Bedding & Backfill</p> <ul style="list-style-type: none"> Flexible pipe bedding and trench width specifications as per SANS 1200LB and DB would be adopted; All bedding material to be of selected granular material with a PI less than 6, and free from organic matter, clay or stones larger than 20mm; Backfill material to be homogeneous and compacted in 150mm layers to 93% Modified AASHTO density;
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		<ul style="list-style-type: none"> Density tests would be carried out on the backfilling by an independent SANAS accredited laboratory. All pipe material to be uPVC Class 12 to SABS 966 with rubber ring push-in fittings; <p>Manholes and chambers would be constructed as specified in SANS1294. The following details would be adopted:</p> <ul style="list-style-type: none"> Manhole channels to be fibre cement; Manholes to be precast concrete (min. 1.0m nominal diameter); Step irons to be Calamite steel-plastic-coated or Copolymer Polypropylene, fixed to precast rings with suitable epoxy adhesive; Benching in manholes to be concrete of minimum strength 20 MPa at 28 days; Septic Tank foundation concrete to be of minimum strength 30 MPa at 28 days Manholes deeper than 3m to be precast concrete rings of 1.5m nominal diameter. All existing pipeline systems to be removed <p>e) Water Pipe works Bedding & Backfill</p> <ul style="list-style-type: none"> Flexible pipe bedding and trench width specifications as per SANS 1200LB and DB would be adopted; All bedding material to be of selected granular material with a PI less than 6, and free from organic matter, clay or stones larger than 20mm; Backfill material to be homogeneous and compacted in 150mm layers to 93% Modified AASHTO density; Density tests would be carried out on the backfilling by an independent SANAS accredited laboratory. <p>The internal water reticulation be constructed as per the following:</p> <ul style="list-style-type: none"> All existing water reticulation to be removed; Equip existing borehole, and provide a 50mm pumping main supplying water into the domestic and fire tanks, a new 50mm glycerin filled pressure meter be installed; Install a complete 70m³ elevated water tank; Install valves and valve chambers in accordance with provided drawings
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		<ul style="list-style-type: none"> All pipe material to be uPVC Class 12 to SABS 966 with rubber ring push-in fittings <p>f) Concrete Works (v-drains, benching and septic tanks)</p> <ul style="list-style-type: none"> Concrete shall have a 28-day test age compressive strength of (25MPa), using mix ratio of 1:2:3 and maximum water-cement ratio of 0.5. Mix design requirements are as follows: W/C Ratio: Water-cementitious ratios shall be based on the total weight of the cementitious materials. Maximum ratios are controlled by strength noted above and durability requirements given in SANS 878:2012 and SANS 1200 G-1982. Aggregates shall conform to TMH1 and SANS 3001 testing methods. Slump: Conform to SANS Method 861. Slump shall determine at point of placement. All concrete sampling and testing shall be performed in accordance with SANS 3001. All concrete shall be consolidated by vibratory compaction tool of appropriate size and shape. Concrete which has become stiff or has been contaminated with foreign materials and which has not been placed in half an hour of mixing water with cement shall be rejected and disposed of as directed by the Resident Engineer. Adequate curing is vital to quality concrete. In all applications, care needs to be taken to properly cure concrete, and achieve best strength and hardness. The concrete must be kept moist for minimum 7 days to maximum 21 days depending on the ambient temperatures. The concrete must be kept moist using wetted burlap for at least 72 hours. All equipment used for mixing concrete shall be maintained in clean condition after every use of concrete placement. <p>All equipment used for mixing concrete shall be maintained in clean condition after every use of concrete placement.</p> <p><i>f(ii)Concrete Aggregates</i></p>
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		<ul style="list-style-type: none"> • Cement - Unless otherwise specified on drawing, cement shall be ordinary Portland cement. The Contractor shall be responsible for payment and transport of cement to the site from any authorized source. The Contractor is responsible for cement storage in dry and secure location within the project site. Damaged or partly set cement will not be allowed to be used and must be removed from the site. • All fine and coarse aggregates proposed for use in the project shall be approved by the Resident Engineer prior to any use. As defined in SANS 3001, which refers to proportions of aggregates, concrete is stronger and more structurally effective when all particles in the mix are well graded in size. • The coarse aggregate (gravel) should be rough and clean with broken faces; rounded particles will not adhere well in the mixture and must be avoided. Dirt and organics in the mix will also decrease strength, and any aggregate containing soil must be washed until clean. • Maximum gravel size is 25mm. Maximum aggregate size must be less than: 0.2 times narrowest dimension between form walls, 0.33 times the depth of slab, and 0.75 times the distance from rebar to the exposed surface. • Sand size should also be graded. It shall be clean and free from impurities. If sand is collected from the beach, it must be washed with fresh water. River sand is preferred but it must be checked for any soil, silt content. • The water use for concrete must be clean, and of good for human consumption quality if possible. Dirty or salty water should not be used in a concrete or mortar mix. In addition, no water from swamps or ponds must be used as it may contain organic matter. Water found satisfactory for mixing is also suitable for curing concrete; however, water used for curing shall not produce any objectionable stain or unsightly deposit on the concrete surface. The presence of tannic acid or Iron compounds is objectionable. The Contractor shall make arrangements for and provide all the water necessary for concrete, mortar, curing or any other purpose on the work.
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		<p><i>f(iii)Formworks</i></p> <ul style="list-style-type: none"> Formwork shall be of timber, plywood, or metal. Before the concrete is actually placed in position, formwork work shall be inspected for safety, conform to the shapes, lines and dimensions as shown on the drawings. Formwork shall be strong enough to withstand concrete vibration. The timber used as formwork shall be well seasoned and free from sap (wood fluid), worm's holes, warps or other surface defects and interior surfaces cleaned and oiled. The Contractor shall record on a register the date upon which the concrete is placed in each part of the work and the date on which the shuttering is removed. Formwork should be left in place for at least 72 hours. Contractor shall consult the Resident Engineer on reasonable time for striking of formwork. <p><i>f(iv)Admixture</i></p> <ul style="list-style-type: none"> If the need arises to use Calcium Chloride, such as in mass concrete works, it shall be dissolved in water and added to the mixing water in an amount not to exceed 1.5 percent of the weight of cement in each batch of concrete. Admixture shall be used in accordance with the manufacturer's instructions and in control with the Engineer. <p><i>f(v)Steel reinforcement</i></p> <ul style="list-style-type: none"> Materials for steel reinforcement shall conform to SANS 920:2011 All reinforcing steels shall be embedded in concrete and with specified size installed appropriately as per drawings. Reinforcement in v-drains and other small works to be adequate for the proper confinement of concrete. Ribbed reinforcing steel (rebar) shall be of good quality and have the approval of the Engineer prior to use, installed to size, bend and detailed specified in the drawings. The Contractor must take measures for safe storage of rebar for prevention of corrosion. All rebar shall be clean, free from grease, oil,
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		<p>paint, or any other material that will destroy or reduce the bond.</p> <ul style="list-style-type: none"> • Installation of rebars must be strong and solid and must be approved by the Resident Engineer before pouring concrete. • Cast-in-situ concrete cover: Conform to the following cover and corrosion protection requirements unless otherwise in the drawings: <p>j) Roads, parking signs and markings The scope for roads and parking shall include the following elements:</p> <ul style="list-style-type: none"> • Paving Blocks 60mm and 80mm; • Bedding Sand; • Jointing Sand; • Subbase; • Subgrade; • Edge restraints; • Drainage. <p>The following densities for various compactions have been recommended:</p> <ul style="list-style-type: none"> • Base - 98% Mod AASHTO • Sub-base - 95% Mod AASHTO • Cemented Materials - 97% Mod AASHTO • Subgrades - 93% Mod AASHTO <p>k) Cleaning and clearing the site The contractor shall pay special attention to the collection and removal of all waste materials originating from the construction activities. All materials trimmed or excavated from the site shall be collected and removed from the site to the satisfaction of the engineer.</p> <p>4. Structural Engineering</p> <ul style="list-style-type: none"> • Foundations for all buildings (classroom blocks, admin block, science lab, ablutions, nutrition centre, grade R block, refuse yard, guard house, pump house) • Structural steel roof structure for the refuse yard, covered car park and covered walkways • Structural elements to buildings (surface bed, beams and columns) • Plinths to dwarf walls for the fire tank • Foundation footings for the covered parking, covered walkways and domestic water tank
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		<ul style="list-style-type: none"> • Boundary fence structural elements • Retaining walls <p>5. Mechanical Engineering Upgrading The following scope of work constitute the mechanical services subcontract for which the contractor shall be required to engage registered specialists in each particular scope listed below:</p> <p>a) Refrigeration Systems</p> <ul style="list-style-type: none"> • Supply and installation of an Isowall type walk in cold room in the Nutrition Centre. <p>b) Ventilation</p> <ul style="list-style-type: none"> • Supply and installation of stainless-steel island type extract hood in the Nutrition Centre. <p>c) Fire Fighting Systems</p> <ul style="list-style-type: none"> • Supply and install fire systems comprising: • Fire water pumps set • Galvanized mild steel sectional fire water storage tank • MPVC underground fire water main reticulation pipe • Fire hydrants • Fire booster connection assembly • Fire hydrants • Fire hose reel • Fire extinguishers • Fire blankets • Galvanized mild steel fire water pipes • HDPE fire water pipes <p>d) Cold water tank</p> <ul style="list-style-type: none"> • Supply and installation of galvanized mild steel sectional potable water storage tank on a 15m high galvanized frame support and platform. <p>e) LPG Supply</p> <ul style="list-style-type: none"> • Supply and installation of as stoves, gas cylinders and pipe reticulations in the Nutrition Centre.
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		<ul style="list-style-type: none"> Supply and installation of bunsen burners, gas cylinders and pipe reticulation in the Laboratory. <p>f) Solar Water Heating</p> <ul style="list-style-type: none"> Supply and installation of solar water heaters to the Administration Block, Grade R Classrooms and Nutrition Centre. Solar water heating
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42.2.2 The Works to be constructed are located in the area of jurisdiction of the Madibeng Local Municipality in the Bojanala District Municipality

42.2.3 The Works or installations to be undertaken by direct contractors comprises

Complete construction works. ***Not applicable***

42.2.4 The Employer is an organ of State

- The interest rate as determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No 1 of 1999) will apply.
- Lateral support insurance is not to be affected by the contractor
- Payment will be made for materials and goods
- Extended defects liability period will apply to the following elements: ***Not applicable***

42.2.5 Possession of the site is to be given within **three days** of the contractor providing the employer with construction guarantees in accordance with the provisions of 14.0 and the Contract has been signed by both parties. Appointed Health and Safety Agent to approve Principal Contractors Health and Safety File and to submit Construction work permit documents to Department of Employment and Labour, 30 days prior to commencement of construction work.

42.2.6 The period for the commencement of the works after the contractor takes possession of the site is **7 working days**.

Completion:

For the works as a whole:

The date for practical completion shall be **(12) months** from the Site Handover Meeting. Specific completion dates will be advised at project kick-off.

The penalty per calendar day to be calculated as per the "Public Works QS 002 Procurement Documentation Guidelines for Building Contracts dated April 2014" formula on calculations of penalties up to a maximum of 10% of the contract value.

Thereafter, the employer shall have a right during the identified delay period to intervene and accelerate the work or appoint a third party to assist or complete the works to reach practical

completion at the planned period. The cost of the appointed third-party work shall be borne by the contractor.

42.2.9 The law applicable to the agreement shall be that of the Republic of South Africa.

42.3.1 Contract works insurance (construction guarantee) is to be affected by the contractor for a sum not less than the contract sum plus **10%**.

The supplementary insurance is required. Such insurance shall comprise a Coupon Policy for Special Risks issued by the South African Special Risk Insurance Association. (SASRIA)

42.3.3 Public liability insurance to be affected by the contractor for the sum of **R10 000 000.00** with a deductible in an amount that the contractor deems appropriate.

42.3.4 Lateral Support insurance: Deemed Not Applicable

42.4.1 A waiver of the contractor's lien or right of continuing possession is required.

42.4.2 One copy of the construction documents is to be supplied to the contractor free of charge.

42.4.5 JBCC Engineering General Conditions are not to be included in the contract document.

42.4.6 CPAP shall only be applicable to works that progress to later than twelve (12) months from commencement date. Where the period is prolonged beyond the first twelve months due to the delay or non- performance by the employer, the CPAP shall be applicable; however where the period is extended due contractor's failure to perform or delay caused by the contractor CPAP shall not be applicable. The contract value is to be adjusted using CPAP indices. The base month to be used to calculate CPAP is tender closing date. The value of the certificates issued shall be adjusted in accordance with the JBCC Contract Price Adjustment Schedules, from the thirteenth month of the works.

42.5.4 **The preliminaries amounts shall be paid in terms of Option A and the contractor shall not have the right to select Option B.**

31.3 The issue of an interim payment certificates shall be done no later than the **20th** of each month.

29.1.1 The contractor shall allow **eleven (11) working days** during the contract period per **6 months** for the adverse effect of weather conditions and shall not be entitled to a revision of the date for Practical Completion for delays suffered by adverse weather conditions.

14.5 The employer **will not** provide advanced payments against an advanced payment guarantee

14.2 The construction guarantee is to be a variable guarantee. It is and shall be **10%** of the contract sum until practical completion and 5% until final completion.

14.4

40.0 Dispute resolution shall be by adjudication. If a dispute is unresolved by adjudication the dispute shall be finally settled by an arbitrator to be agreed between the parties.

C1.2 CONTRACT DATA (Continued)

Part Two – Data provided by the *Contractor*

Statements
given in all
contracts

Completion of the data in full, is essential to create a complete contract.

- The *Contractor* is

Clause 42.5.1: Name

The legal name of the Contractor.

Clause 42.5.1 [1.2]: Address

.....

.....

*The physical address, postal address, e-mail address and/or fax number
where the Contractor will receive notices.*

C1.3 CONSTRUCTION GUARANTEE

Pro-Forma JBCC Variable On Demand Performance Guarantee

To: The Development Bank of Southern Africa Limited

Dear Sirs

Reference No. [●] *[Drafting Note: Guarantor/Bank reference number to be inserted]*

Performance Bond: *[Drafting Note: Name of Contractor to be inserted]*

Employer: Contract Reference - [●] *[Drafting Note: Contract reference number to be inserted]*

1. In this Guarantee

1.1 The following words and expressions have the following meanings:

- 1.1.1 “Guarantor” - means [●], [●] Branch, (Registration No. [●]); *[Drafting Note: Name of Guarantor to be inserted]* [O] **Financial Services Board Registration number**
- 1.1.2 “Guarantor’s Address” - means [●]; *[Drafting Note: Guarantor’s physical address to be inserted]*
- 1.1.3 “Contract” - means the written agreement entered into between the Employer and the Contractor on or about [●] [●] 201[●] (Contract Reference No. [●]), as amended, varied, restated, novated or substituted from time to time; *[Drafting Note: signature date and Contract reference number to be inserted]*
- 1.1.4 “Contractor” - means [●] a [●] registered in accordance with the laws of [●] with registration number [●]; *[Drafting Note: Name and details of Contractor to be inserted]*
- 1.1.5 “Employer” - means The Development Bank of Southern Africa Limited, a juristic person in terms of section 2 of The Development Bank of Southern Africa Limited Act, 13 of 1979;
- 1.1.6 “Expiry Date” - means the [●] day of [●] *[Drafting Note: This date should align with the date of final completion]*;
- 1.1.7 “this Guarantee” - means this document;
- 1.1.8 “This Guaranteed Sum” – means, subject to clause 4 **Error! Reference source not found.**, the sum of [● - figure] ([● - words]) *[Drafting Note: Maximum aggregate Guarantee amount (not exceeding 10.0% of the total of the Prices as at the Contract Date) to be inserted]* which amount will reduce with 50% when the Practical Completion certificate is issued until Final Completion.

1.2 Words or expressions capitalised shall bear the same meaning as assigned to them

under the Contract albeit that the Contract itself, and any terms as defined therein, are merely referenced for convenience and not to create an accessory obligation.

2. At the instance of the Contractor, the Guarantor hereby confirms that we hold the Guaranteed Sum at the disposal of the Employer, as security for the proper performance by the Contractor of all of his obligations in terms of and arising from the Contract, and hereby irrevocably and unconditionally both agree and undertake to pay to the Employer, on written demand from the Employer envisaged in paragraph 3 below and received prior to the Expiry Date, any amount or amounts as may be so demanded from time to time, subject to a maximum of the Guaranteed Sum in the aggregate.
3. A demand for payment under this Guarantee shall be made in writing at the Guarantor's address or by email to the following email [.....] and shall:
 - 3.1 state the amount claimed ("the Demand Amount");
 - 3.2 state that the Demand Amount is payable to the Employer in the circumstances contemplated in the Contract:
4. The Guaranteed Sum may be reduced from time to time upon receipt by the Guarantor of the Employer's written certificate certifying the amount of such reduction and the Contractor's entitlement thereto under the Contract.
5. Notwithstanding the reference herein to the Contract the Guarantor acknowledges that:
 - 5.1 the liability of the Guarantor in terms hereof is as principal and not as surety and the Guarantor's obligation/s to make payment:
 - 5.1.1 is and shall be absolute and unconditional in all circumstances; and
 - 5.1.2 is not, and shall not be construed to be, accessory or collateral on any basis whatsoever;
 - 5.2 the Employer shall be entitled to arrange its affairs with the Contractor in any manner which it sees fit, without advising us and without affecting the Guarantor's liability under this Guarantee. This includes, without limitation, any extensions, indulgences, release or compromise granted to the Contractor or any variation under or to the Contract or termination of the Contract.
 - 5.3 should the Employer cede its rights against the Contractor to a third party where such cession is permitted under the Contract, then the Employer shall be entitled to cede to such third party the rights of the Employer under this Guarantee on written notification to the Guarantor of such cession.
6. The Guarantor's obligations in terms of this Guarantee:
 - 6.1 shall be restricted to the payment of money only and shall be limited to the maximum of the Guaranteed Sum; and
 - 6.2 shall not be discharged and compliance with any demand for payment received by

the Guarantor in terms hereof shall not be delayed, by the fact that a dispute may exist between the Employer and the Contractor.

7. This Guarantee:

- 7.1 shall expire on the Expiry Date until which time it is irrevocable;
- 7.2 is, save as provided for in 5.3 above, personal to the Employer and is neither negotiable nor transferable;
- 7.3 shall be returned to the Guarantor upon the earlier of payment of the full Guaranteed Sum or expiry hereof;
- 7.4 shall be regarded as a liquid document for, firstly, the purpose of demonstrating and/or determining the amount due by the Guarantor to the Employer and, secondly, obtaining any court order; and
- 7.5 shall be governed by and construed in accordance with the law of the Republic of South Africa and shall be subject to the jurisdiction of the Courts of the Republic of South Africa.

8. The Guarantor chooses the *domicilium citandi et executandi* for all purposes in connection with this Guarantee at the Guarantor's Address.

Signed at _____ Date _____

For and behalf of the Guarantor, which signatories by appending their signatures warrant that they are authorised to bind the Guarantor as above stated:

Guarantor Signatory 1: _____ Guarantor Signatory 2: _____

Name: _____ Name: _____

Capacity of Guarantor _____ Capacity of Guarantor _____
Signatory 1: _____ Signatory 2: _____

Witness: _____ Witness: _____
(Printed Name of Witness) (Printed name of witness)

Guarantor's seal or stamp _____

PART 2: PRICING DATA

JBCC Principal Building Agreement, Edition 4.1 Code2101 March 2005, issued by the Joint Building Contracts Committee Inc. (including amendments).

Document reference	Title	No of pages
C2.1	Pricing Instructions	2
C2.2	Bill of Quantities	1
C.2.3	Amendments, Qualifications And Alternatives By Tenderer	1
	Total number of pages	4

C2.1 PRICING INSTRUCTIONS

1. The Bills of Quantities have been drawn up in accordance with the Standard System of Measuring Building Work (as amended) published and issued by the Association of South African Quantity Surveyors (Sixth Edition (Revised)), 1999. Where applicable the:
 - a) civil engineering work has been drawn up in accordance with the provisions of the latest edition of SABS 1200 Standardized Specifications for Civil Engineering Works.
 - b) electrical work has been drawn up in accordance with the provisions of the Model Bills of Quantities for Electrical Work, published by the South African Association of Quantity Surveyors, (July 2005).
2. The agreement is based on the JBCC Series 2000 Principal Building Agreement, prepared by the Joint Building Contracts Committee, Edition 4.1, March 2005. The additions, deletions and alterations to the JBCC Principal Building Agreement as well as the contract specific variables are as stated in the Contract Data. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
3. Preliminary and general requirements are based on the various parts of SANS 1921, Construction and management requirements for works contracts. The additions, deletions and alterations to the various parts of SANS 1921 as well as the contract specific variables are as stated in the Specification Data in the Scope of Work. Only the headings and clause numbers for which allowance must be made in the Bills of Quantities are recited.
4. It will be assumed that prices included in the Bills of Quantities are based on Acts, Ordinances, Regulations, By-laws, International Standards and National Standards that were published 28 days before the closing date for tenders. (Refer to www.stanza.org.za or www.iso.org for information on standards).
5. The drawings listed in the Scope of Works used for the setting up of these Bills of Quantities are kept by the Principal Agent or Engineer and can be viewed at any time during office hours up until the completion of the works.
6. Reference to any particular trademark, name, patent, design, type, specific origin or producer is purely to establish a standard for requirements. Products or articles of an equivalent standard may be substituted.
7. Where any item is not relevant to this specific contract, such item is marked N/A (signifying "not applicable")
8. The Contract Data and the standard form of contract referenced therein must be studied for the full extent and meaning of each and every clause set out in Section 1 (Preliminaries) of the Bills of Quantities.
9. The Bills of Quantities is not intended for the ordering of materials. Any ordering of materials, based on the Bills of Quantities, is at the Contractor's risk.
10. The amount of the Preliminaries to be included in each monthly payment certificate shall be assessed as an amount prorated to the value of the work duly executed in the same ratio as the preliminaries bears to the total of prices excluding any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract.

11. Where the initial contract period is extended, the monthly charge shall be calculated on the basis as set out in 10 but taking into account the revised period for completing the works.
12. The amount or items of the Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time or value (or both) have on this section. Such adjustments shall be based on adjustments in the following categories as recorded in the Bills of Quantities:
 - a) an amount which is not to be varied, namely Fixed (F)
 - b) an amount which is to be varied in proportion to the contract value, namely Value Related (V); and
 - c) an amount which is to be varied in proportion to the contract period as compared to the initial construction period excluding revisions to the construction period for which no adjustment to the contractor is not entitled to in terms of the contract, namely Time Related (T).
13. Where no provision is made in the Bills of Quantities to indicate which of the three categories will apply or where no selection is made, the adjustments shall be based on the following breakdown:
 - a) 10 percent is Fixed;
 - b) 15 percent is Value Related
 - c) 75 percent is Time Related.
14. The adjustment of the Preliminaries shall apply notwithstanding the actual employment of resources in the execution of the works. The contract value used for the adjustment of the Preliminaries shall exclude any contingency sum, the amount for the Preliminaries and any amount in respect of contract price adjustment provided for in the contract. Adjustments in respect of any staged or sectional completion shall be prorated to the value of each section.

C2.2 BILL OF QUANTITIES

Use this page as a cover page to the *Contractor's Bill of Quantities*.

- 1) Tenderers are to ensure that adequate provision for the health and safety measures have been and provided detailed breakdown in the *Bill of Quantities*, as required by the Department of Labour.
- 2) The PDF/ original format *Bill of Quantities* must be populated by hand in black ink and will be the document used for evaluation purposes.
- 3) The *Bill of Quantities* as provide in Excel must be populated in full, converted to PDF and signed and will be the document used for evaluation purposes.
- 4) Tenderers are also required to electronically populate the Excel format and add to the required Flash Drive with your submission. This will be used to support verification of pricing errors.

I, _____ of _____,
(Authorised Signatory) (Company Name)

Hereby acknowledge having read, understood and agree to requirements as set out in C2.2 and warrant that the documents submitted are true and accurate.

(Signature)

(Date)

C2.3 AMENDMENTS, QUALIFICATIONS AND ALTERNATIVES BY TENDERER

~~Subject to condition stated in Tender Data:~~

~~Use this page as a cover page to the *Amendments, Qualifications and Alternatives by Tenderer*~~

PART 3: SCOPE OF WORK

Document reference	Title	No of pages
	This cover page	1
C3.1	Project Specifications	12
C3.2	Particular Specifications *	1
C3.3	Drawings(list of all drawings)	4
*	Refer to Addendum A & B for additional pages	
	Total number of pages	18


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2. DRAWINGS	30
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C3.1 PROJECT SPECIFICATIONS

	<p style="text-align: center;">VOLUME 3 OF 3</p> <p style="text-align: center;">JBCC</p> <p style="text-align: center;">THE CONTRACT</p>	<p style="text-align: center;">Tender No RFP041/2022</p> <p style="text-align: center;">CONSTRUCTION OF ADDITIONAL LEARNING AREAS AND RENOVATION OF EXISTING INFRASTRUCTURE AT GOAKGANYA PRIMARY SCHOOL IN NORTH- WEST PROVINCE</p>
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1. DESCRIPTION OF THE WORKS

1.1. Employer's objectives

The Employer's objectives are to deliver public infrastructure using labour-intensive methods where possible as required by the Expanded Public Works Programme to provide temporary employment opportunities to local unemployed people and to provide training or skills development to these locally employed workers.

1.2. Overview of the works

The Department of Basic Education has an objective to eradicate inappropriate school structures and provide basic services (water, sanitation and electricity) to schools so as to meet the optimum functionality levels prescribed by norms and standards for school's infrastructure.

1.3. Extent of the works

DBSA intends to appoint a Contractor to execute the construction of additional learning areas and renovations of existing infrastructure at Gaokganya Primary School on behalf of North West Department of Basic Education (DoE).

The Works to be carried out by the Contractor under this Contract comprise mainly the following:

Building Works

The scope of work entails the construction of the following infrastructure at Goakganya Primary School.

- a) Administration Block
- b) Grade R Classroom Block
- c) Science Laboratory Block
- d) Multi-Media Center Block
- e) 3 x Classroom Block A
- f) 3 x Classroom Block B
- g) 2 x Classroom Block
- h) Nutrition Center
- i) Guard House
- j) Refuse Yard
- k) Pump Room
- l) Boundary Fence and gate
- m) School name board and signage
- n) Existing Ablutions - New Paving around existing ablutions, existing Ablutions to be linked to the New Covered Walkway and make Good existing Ablutions
- o) Covered Walkway
- p) Sporting Facilities
- q) Paved and covered parking
- r) Food garden
- s) Landscaping
- t) Demolitions
 - Demolish the existing old classroom Block, existing carport, septic tank, remove old existing fence and equipment on the children's play area


- Break down and demolish existing building size approximately 40 000mm long x 9 000mm wide x 3100mm high with two gable ends, including cutting the foundation wall, strip footings, windows, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the building (5 Classroom block)
 - Carefully disconnect electrical installation and electrical fittings, under the supervision of a qualified electrician and in consultation with the Electrical Engineer to four classroom blocks
 - Break down and demolish existing carport size approximately 10370mm long x 11810mm wide x 3100mm high complete including cutting the foundation wall, strip footings, columns, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the carport
 - Break down and demolish existing carport size approximately 6220mm long x 5150mm wide x 3100mm high complete including cutting the foundation wall, strip footings, columns, roof covering, etc, removal of surface beds, backfilling, cart away, etc. of all rubble and leaving no visible sign of the carport
- u) Decanting facilities
- New Office Cabins x 2
 - New Classroom Cabins x 5
 - Existing Classroom Cabins x 2
 - Drinking water points
 - Temporary Paved Parking
 - Temporary Paved Assembly Square
 - Temporary paved uncovered walkways
 - Temporary services (water, sewer, stormwater, roads and parking)

Electrical Engineering:

- Upgrading of the main electrical supply to the school
- Incoming power supply installation
- Low voltage power reticulation within the school premises on new buildings
- Small power installations
- Provision of power supply to mechanical equipment
- Interior lighting installations
- Exterior lighting installations
- Intercommunication system installations
- Independent interval bell sounder system installations
- Earthing and lightning protection
- Data and telephone points

Civil Engineering

- a) Searching, protection and relocation/lowering of existing services
- b) Site clearance, clearing and grubbing
- c) Bulk Earthworks
- d) Soccer ground and Kombi court
- e) Sewer Pipe works
- f) Septic Tank and Soak away
- g) Water Pipe works
- h) Concrete works (v-drains, benching and septic tanks)
- i) Roads, parking signs and markings

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j) Finishing of the road and clearing the site

a) Searching, protection and relocation/lowering of existing services

Before commencement of works the Contractor shall search for all existing services, and protect and relocate in accordance with Resident Engineer and Service provider specifications.

b) Site clearance, clearing and grubbing

All vegetation and debris within the limits of construction (except as designated to remain) shall be cleared, grubbed, removed, and disposed of. All vegetation and objects to remain shall be protected in keeping with the EIA recommendations. All construction debris may be placed in containers and removed from site. The disposal requirements as with "hazardous" debris shall be determined by the Contractor in accordance with the relevant SANS standards.

c) Bulk Earthworks

The Contractor in accordance with approved bulk earthworks plans, and all applicable codes adopted and enforced by relevant agency, if any, shall implement all site/grading, erosion, and sediment control mechanism. The contractor shall provide all materials necessary for the platforms of the buildings before the commencement of excavation. Excavation shall be carried out according to the drawings or as directed by Resident Engineer on site.

d) Sewer Pipe works

Bedding & Backfill

- Flexible pipe bedding and trench width specifications as per SANS 1200LB and DB would be adopted;
- All bedding material to be of selected granular material with a PI less than 6, and free from organic matter, clay or stones larger than 20mm;
- Backfill material to be homogeneous and compacted in 150mm layers to 93% Modified AASHTO density;
- Density tests would be carried out on the backfilling by an independent SANAS accredited laboratory.
- All pipe material to be uPVC Class 12 to SABS 966 with rubber ring push-in fittings;

Manholes and chambers would be constructed as specified in SANS1294. The following details would be adopted:

- Manhole channels to be fibre cement;
- Manholes to be precast concrete (min. 1.0m nominal diameter);
- Step irons to be Calcamite steel-plastic-coated or Copolymer Polypropylene, fixed to precast rings with suitable epoxy adhesive;
- Benching in manholes to be concrete of minimum strength 20 MPa at 28 days;
- Septic Tank foundation concrete to be of minimum strength 30 MPa at 28 days
- Manholes deeper than 3m to be precast concrete rings of 1.5m nominal diameter.
- All existing pipeline systems to be removed

e) Water Pipe works

Bedding & Backfill

- Flexible pipe bedding and trench width specifications as per SANS 1200LB and DB would be adopted;
- All bedding material to be of selected granular material with a PI less than 6, and free from organic matter, clay or stones larger than 20mm;
- Backfill material to be homogeneous and compacted in 150mm layers to 93% Modified AASHTO density;
- Density tests would be carried out on the backfilling by an independent SANAS accredited laboratory.

The internal water reticulation be constructed as per the following:

- All existing water reticulation to be removed;
- Equip existing borehole, and provide a 50mm pumping main supplying water into the domestic and fire tanks, a new 50mm glycerin filled pressure meter be installed;
- Install a complete 70m³ elevated water tank;
- Install valves and valve chambers in accordance with provided drawings
- All pipe material to be uPVC Class 12 to SABS 966 with rubber ring push-in fittings

f) Concrete Works (v-drains, benching and septic tanks)

- Concrete shall have a 28-day test age compressive strength of (25MPa), using mix ratio of 1:2:3 and maximum water-cement ratio of 0.5. Mix design requirements are as follows:
- W/C Ratio: Water-cementitious ratios shall be based on the total weight of the cementitious materials. Maximum ratios are controlled by strength noted above and durability requirements given in SANS 878:2012 and SANS 1200 G-1982.
- Aggregates shall conform to TMH1 and SANS 3001 testing methods.
- Slump: Conform to SANS Method 861. Slump shall determine at point of placement.
- All concrete sampling and testing shall be performed in accordance with SANS 3001.
- All concrete shall be consolidated by vibratory compaction tool of appropriate size and shape.
- Concrete which has become stiff or has been contaminated with foreign materials and which has not been placed in half an hour of mixing water with cement shall be rejected and disposed of as directed by the Resident Engineer.
- Adequate curing is vital to quality concrete. In all applications, care needs to be taken to properly cure concrete, and achieve best strength and hardness. The concrete must be kept moist for minimum 7 days to maximum 21 days depending on the ambient temperatures. The concrete must be kept moist using wetted burlap for at least 72 hours.
- All equipment used for mixing concrete shall be maintained in clean condition after every use of concrete placement.

All equipment used for mixing concrete shall be maintained in clean condition after every use of concrete placement.

f(ii) Concrete Aggregates

- Cement - Unless otherwise specified on drawing, cement shall be ordinary Portland cement. The Contractor shall be responsible for payment and transport of cement to the site from any authorized source. The Contractor is responsible for cement storage in dry and secure location within the project site. Damaged or partly set cement will not be allowed to be used and must be removed from the site.
- All fine and coarse aggregates proposed for use in the project shall be approved by the Resident Engineer prior to any use. As defined in SANS 3001, which refers to proportions of

aggregates, concrete is stronger and more structurally effective when all particles in the mix are well graded in size.

- The coarse aggregate (gravel) should be rough and clean with broken faces; rounded particles will not adhere well in the mixture and must be avoided. Dirt and organics in the mix will also decrease strength, and any aggregate containing soil must be washed until clean.
- Maximum gravel size is 25mm. Maximum aggregate size must be less than: 0.2 times narrowest dimension between form walls, 0.33 times the depth of slab, and 0.75 times the distance from rebar to the exposed surface.
- Sand size should also be graded. It shall be clean and free from impurities. If sand is collected from the beach, it must be washed with fresh water. River sand is preferred but it must be checked for any soil, silt content.
- The water use for concrete must be clean, and of good for human consumption quality if possible. Dirty or salty water should not be used in a concrete or mortar mix. In addition, no water from swamps or ponds must be used as it may contain organic matter. Water found satisfactory for mixing is also suitable for curing concrete; however, water used for curing shall not produce any objectionable stain or unsightly deposit on the concrete surface. The presence of tannic acid or Iron compounds is objectionable. The Contractor shall make arrangements for and provide all the water necessary for concrete, mortar, curing or any other purpose on the work.

f(iii)Formworks


- Formwork shall be of timber, plywood, or metal. Before the concrete is actually placed in position, formwork work shall be inspected for safety, conform to the shapes, lines and dimensions as shown on the drawings. Formwork shall be strong enough to withstand concrete vibration. The timber used as formwork shall be well seasoned and free from sap (wood fluid), worm's holes, warps or other surface defects and interior surfaces cleaned and oiled.
- The Contractor shall record on a register the date upon which the concrete is placed in each part of the work and the date on which the shuttering is removed. Formwork should be left in place for at least 72 hours. Contractor shall consult the Resident Engineer on reasonable time for striking of formwork.

f(iv)Admixture

- If the need arises to use Calcium Chloride, such as in mass concrete works, it shall be dissolved in water and added to the mixing water in an amount not to exceed 1.5 percent of the weight of cement in each batch of concrete. Admixture shall be used in accordance with the manufacturer's instructions and in control with the Engineer.

f(v)Steel reinforcement

- Materials for steel reinforcement shall conform to SANS 920:2011
- All reinforcing steels shall be embedded in concrete and with specified size installed appropriately as per drawings. Reinforcement in v-drains and other small works to be adequate for the proper confinement of concrete.
- Ribbed reinforcing steel (rebar) shall be of good quality and have the approval of the Engineer prior to use, installed to size, bend and detailed specified in the drawings. The Contractor must take measures for safe storage of rebar for prevention of corrosion. All rebar shall be clean, free from grease, oil, paint, or any other material that will destroy or reduce the bond.

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- Installation of rebars must be strong and solid and must be approved by the Resident Engineer before pouring concrete.
- Cast-in-situ concrete cover: Conform to the following cover and corrosion protection requirements unless otherwise in the drawings:

j) Roads, parking signs and markings

The scope for roads and parking shall include the following elements:

- Paving Blocks 60mm and 80mm;
- Bedding Sand;
- Jointing Sand;
- Subbase;
- Subgrade;
- Edge restraints;
- Drainage.

The following densities for various compactions have been recommended:

- Base - 98% Mod AASHTO
- Sub-base - 95% Mod AASHTO
- Cemented Materials - 97% Mod AASHTO
- Subgrades - 93% Mod AASHTO

k) Cleaning and clearing the site

The contractor shall pay special attention to the collection and removal of all waste materials originating from the construction activities. All materials trimmed or excavated from the site shall be collected and removed from the site to the satisfaction of the engineer.


Structural Engineering

- Foundations for all buildings (classroom blocks, admin block, science lab, ablutions, nutrition centre, grade R block, refuse yard, guard house, pump house)
- Structural steel roof structure for the refuse yard, covered car park and covered walkways
- Structural elements to buildings (surface bed, beams and columns)
- Plinths to dwarf walls for the fire tank
- Foundation footings for the covered parking, covered walkways and domestic water tank
- Boundary fence structural elements
- Retaining walls

Mechanical Engineering

Upgrading The following scope of work constitute the mechanical services subcontract for which the contractor shall be required to engage registered specialists in each particular scope listed below:

a) Refrigeration Systems

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- Supply and installation of an Isowall type walk in cold room in the Nutrition Centre.

b) Ventilation

- Supply and installation of stainless-steel island type extract hood in the Nutrition Centre.

c) Fire Fighting Systems

- Supply and install fire systems comprising:
- Fire water pumps set
- Galvanized mild steel sectional fire water storage tank
- MPVC underground fire water main reticulation pipe
- Fire hydrants
- Fire booster connection assembly
- Fire hydrants
- Fire hose reel
- Fire extinguishers
- Fire blankets
- Galvanized mild steel fire water pipes
- HDPE fire water pipes

d) Cold water tank

- Supply and installation of galvanized mild steel sectional potable water storage tank on a 15m high galvanized frame support and platform.

e) LPG Supply

- Supply and installation of as stoves, gas cylinders and pipe reticulations in the Nutrition Centre.
- Supply and installation of bunsen burners, gas cylinders and pipe reticulation in the Laboratory.

f) Solar Water Heating

- Supply and installation of solar water heaters to the Administration Block, Grade R Classrooms and Nutrition Centre.
- Solar water heating

Services

Before any work commences, the Contractor shall contact all private owners or public authorities controlling services so that they may, either protect, move or relocate any service as required, or confirm that all such work has been completed.

Payment will not be made for any inconvenience caused to the Contractor in regard to any services crossing the site or any authority working on or relocating any such services, nor will any delays caused by such work or relocation be accepted as a basis for claiming an extension of time for completing the works.

All known existing services and those services which require relocation and protection, are shown on the services plans. The Contractor's attention is drawn to the fact that such services information is based on information supplied by others, and the accuracy and completeness of this information has not been confirmed. The Contractor will therefore be required to proceed with extreme caution in order to avoid damage to existing services. Before commencing any work in the vicinity of services, the Contractor shall contact the relevant service authorities for assistance in locating the exact position of the services and where necessary the Contractor shall accurately locate the services by careful hand excavation.

In general, the Engineer may call upon the Contractor to re-excavate trenches previously dug and backfilled by others where in the opinion of the Engineer such work is necessary to ensure the stability of any other works over such trenches. This in no way relieves the Contractor of his responsibilities in terms of the works.

Accommodation of Traffic

The Contractor is to liaise with the North West Provincial Department of Roads & Transport with regards to any temporary road closures as required during this contract.

Accommodation of traffic during construction shall be undertaken to the requirements and details provided by the Engineer.

Coordination with Other contractors

~~Other contractors, who are engaged in the construction of similar works, could be working within the sites of the Contractor. The Contractor will be required to provide all necessary assistance to them, and to liaise with them in respect of their programme in order to avoid any delays to either contract. See clause 5.6.6 of the Contract Data.~~


Setting Out of Works

Whilst surveys have been carried out of the site, and the designs based on such surveys, it is the responsibility of the Contractor to recheck all the benchmarks and protect the benchmarks from damage at the start of the contract. It is the Contractor's responsibility to set out the Works and any discrepancies in the design or setting out shall be identified and brought to the attention of the Engineer promptly so they can be corrected before any abortive expenditure is incurred.

Location of the works

The Works to be constructed are located in the area as stated below. Refer to C4 - Site information for locality map.

SCHOOL	LOCAL MUNICIPALITY	DISTRICT MUNICIPALITY	LATTITUDE	LONGITUDE
Gaokganya Primary School	Madibeng Local Municipality	Bojanala District Municipality	25°26'32.06"S	27°58'43.85"E

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- Locality Map: *refer to C4.1*

a. Occupational Health and Safety

The contractor needs to comply with the following legal requirements:

- Occupational Health and Safety Act, 85 of 1993 and the Construction Regulations, 2014;
- Section 27(2) of the Disaster Management Act, 2002 Regulations as amended;
- COVID-19 Consolidated Directions on Occupational Health and Safety in Certain work places.
- Annexure A - DBSA Occupational Health and Safety Baseline specification and COVID-19 amendment;
- Annexure B - DBSA Baseline Risk Assessment and COVID-19 amendment;
- Annexure C - Safety, Health, Environment and Quality Policy.

2. DRAWINGS

The drawings used for setting up the Bills of Quantities are as follows:

- Architects drawings
- Engineers drawings

To be provided at site handover where applicable

3. PROCUREMENT

3.1. Preferential procurement procedures

The works shall be executed in accordance with the conditions attached to preferences granted in accordance with the preference schedule.

It is important to note that there 30% mandatory local subcontracting that will be mandatory in this project. Any appointment that are to be made in respect of the 30% local sub-contracting must be submitted to the DBSA Construction Project Manager for approval.

4. CONSTRUCTION

4.1. Applicable SANS 2001 standards for construction works.

The following parts of SANS 2001 Construction works standards and associated specification data are applicable to the works:

- 1) SANS 2001BE1 – Earthworks
- 2) SANS 2001BS1 - Site Clearance
- 3) SANS 2001CC2 - Concrete works
- 4) SANS 2001CG1 - Glazing works
- 5) SANS 2001CM1 - Masonry works.
- 6) SANS 2001CS1- Structural steel works
- 7) SANS 2001CT2 – Structural timber works
- 8) SANS 2001DP1 - Earthworks for buried pipelines and prefabricated culverts
- 9) SANS 2001DP2 – Medium pressure pipes
- 10) SANS 2001DP3 – Cable ducts
- 11) SANS 2001DP4 – Sewers
- 12) SANS 2001DP5 – Storm water drainage
- 13) SANS 2001DP6 – Belowground water installations
- 14) SANS 2001EM1 – Cement plaster

The abovementioned South African National Standards make several references to the

Specification Data for data, provisions and variations that make these standards applicable to this contract. The Specification Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and these standards.

Each item of Specification Data given below is cross-referenced to the clause in the standard to which it mainly applies.

4.2. Applicable national and international standards

- Standardized Specifications for Civil Engineering Construction SANS 1200
- The National Building Regulations SABS0400
- Construction and Management Requirements for Works Contracts SANS1921-1
- Targeted Construction Procurement SANS1914-4 4.

4.3. Local Employment Generation

4.3.1 The DBSA has identified job creation and access to procurement opportunities by Start-ups, Small and Micro Enterprises (SMMEs) as an essential requirement towards building an economically viable country.

4.3.2 General Labour minimum targets

It is mandatory that tenderers/bidders employ the minimum stipulated personnel on the contracts for the local community where the project is being implemented. This employment is outside the existing employees of the tenderers/bidders .

For the general labour force, the minimum number of people to be employed for the duration of the Project will be calculated from the formula below.

$$\text{Number of Employees} = 4 * \left[\frac{(\text{Contract Value in Rand})}{R1,000,000} \right]$$

4.3.3 Tenderers are to also note that it is an explicit condition of this tender that all unskilled labourers on the project are to be employed from the local community. The Contractor is therefore expected in general to maximise the involvement of the local community.

Take note that the local labour employed must not be paid lower than the minimum approved Municipal rates in that district or area.

4.3.4 The Contractor shall be required to submit employment data on a monthly basis to the Project Manager.

4.4 SMME

Should the contractor at Works Completion, be in default by non-attainment of the above mentioned labour intensive targets, the Employer shall have the right to, without prejudice of any other rights, apply a penalty of **not exceeding 5% of the contract sum**.

For subcontract work, 20% of the value of the work must be sub-contracted linked with a clear plan of how the contractor will capacitate the sub-contractor to advance.

Where SMMEs are sufficiently resourced, 10% of the value of the work must be subcontracted. Where SMMEs are insufficient resources to execute the proposed works as a complete package the Contractor may conclude contracts on a management/labour basis in which event a minimum of 5% of the value the works is to be subcontracted. The onus is on the Contractor to prove to the employer that no fully fledged SMMES are active in the area of the project.

Regarding procurement of materials, local is hereby defined as the district in which the project(s) is/are located which is Dr Kenneth Kaunda District Municipality. The minimum target for materials sourced locally is 20% of the contract value.

SIGNATURE: _____
(Authorised Person)

DATE: _____

4.5 Specific provisions pertaining to SANS 1914-4

4.6 Definitions

Targeted enterprise:

An enterprise which has its sole office of head office located within the Target Area

Targeted labour:

Unemployed persons who are employed as local labour on the project.

4.7 Certification by recognized bodies

Not Applicable

4.8 Plant and materials provided by the employer

Not Applicable

4.9 Services and facilities provided by the employer

Not Applicable

4.10 Plant and equipment

The plant and equipment used on the site shall not be inferior to that described in the Schedule of Plant and Equipment.

5. MANAGEMENT

1.1. SANS 1921 standards

The SANS 1921 Construction works standards and associated specification data are applicable to the works:

The abovementioned South African National Standards make several references to the Specification Data for data, provisions and variations that make these standards applicable to this

contract. The Specification Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and these standards.

Each item of Specification Data given below is cross-referenced to the clause in the standard to which it mainly applies.

The associated Specification Data is as follows:

SANS 1921-1, Construction and management requirements for works contracts – Part 1: General engineering and construction works	
Clause	Specification data
Essential data	
4.1.7	There are no requirements for drawings, information and calculations for which the contractor is responsible
4.2.1	The responsibility strategy assigned to the contractor for the works is A.
4.2.2	The structural engineer is: TBC
4.3.1	The planning, programme and method statements are to comply with the following: <ul style="list-style-type: none"> 1) Program to be submitted in Microsoft Project format 2) Gantt chart to indicate critical path and progress 3) Gantt chart to be updated before monthly site meeting
4.3.3	The notice period for inspection is 2 Days
4.9.3	The trees and shrubs which are not to be disturbed are to be identified on site. Where possible, the disturbance of trees should be avoided.
4.14.3	The office accommodation, equipment, accommodation for site meetings and other facilities for use by the employer and his agents are: <ul style="list-style-type: none"> 1) Site office which shall be used for site meetings and for the contractor's use. Such an office shall comprise a minimum of 20m² in area and 3 m high, be ventilated, have good lamination, must be reasonably sound proof, and have a hard floor construction. It shall be furnished with a desk on which drawings can be rolled open and on which there is sufficient writing space and sufficient temporary chairs or benches to accommodate all persons present at site meetings. (Minimum 15-seater) 2) The following facilities will be supplied to the employer's representatives: <ul style="list-style-type: none"> - 15 Hardhats for employer's representatives visiting the site - 15 Safety (High visibility) jackets for employer representatives visiting the site - 15 sets of safety Goggles - 15 sets of earplugs (when applicable)

4.14.5	The Contractor is required to provide latrine and ablution facilities for the exclusive use of the professional team and client
4.14.6	The requirements for the provision and erection of separate sign boards for consultants and subcontractors are: 1) See Bill of Quantities.
4.17.1	The requirements for the termination, diversion or maintenance of existing services are: 1) See Civil Drawings
4.17.3	Services which are known to exist on the site are: 1) Water network. 2) Electricity reticulation, sub-surface and over head 3) Sewer Network
4.17.4	The requirements for detection apparatus are: 1) Communication with Department of Health officials.

Additional clauses

1 Site meetings and procedures

The Employer's Representative and the Contractor shall hold meetings relating to the progress of the works at regular intervals and at other such times as may be necessary. The Contractor shall attend all site meetings and shall ensure that all persons under his jurisdiction are notified timeously of all site meetings should the Employer's Representative require their attendance at such meetings.

The Contractor shall keep on site a set of minutes of all site meetings, daily records of resources (people and equipment employed), a site instruction book, a complete set of contracts working drawings and a copy of the procurement document and make these available at all reasonable times to all persons concerned with the contract.

2 Water and electricity

The Employer does not warrant that any water supply or electricity supply that may exist is adequate for the proper execution of the works. The responsibility strategies in terms of the tabulation below that will apply to the contract is:

- a) water : A
- b) electricity: A

Service	Option		
	A	B	C
	Contractor responsibility	Employer responsibility	

Water	The Contractor is to provide, and remove and make good upon completion, all the necessary temporary plumbing connections and purchase water from the local authority for the works at his own cost.	The Contractor shall make, and upon completion remove, all the necessary connections to the Employer's water supply at designated points and make use of water free of charge for construction purposes only.	The Contractor shall make, and upon completion remove, all the necessary connections and water meters to the Employer's water supply at designated points and be responsible for costs associated with all water consumed.
Electricity	The Contractor is to provide, and remove and make good upon completion, all the necessary temporary electrical connections and installations and purchase electricity from the local authority / ESKOM for the works at his own cost.	The Contractor shall make, and upon completion remove, all the necessary electrical connections to the Employer's electrical supply at designated points and make use of electricity free of charge for construction purposes only.	The Contractor shall make, and upon completion remove, all the necessary connections and meters to the Employer's electrical supply and be responsible for costs associated with all electricity consumed.

The following temporary services is the responsibility and will be supplied by the contractor:

- Security
- Sewer services in the form of temporary toilets
- Waste disposal facility

SANS 1921-5, Construction and management requirements for works contracts – Part 5: Earthworks activities which are to be performed by hand.

Clause	Specification Data
Essential Data:	
5.1	The depth of trenches which are to be excavated by hand is 700mm.
Additional clauses:	
1	<p>Stone pitching and rubble concrete masonry</p> <p>All stone required for stone pitching and rubble concrete masonry, whether grouted or dry, shall be collected, loaded, off loaded and placed by hand.</p> <p>Sand and stone shall be hauled to its point of placement by means of wheelbarrows where the haul distance is not greater than 150m.</p> <p>Grout shall be mixed and placed by hand.</p>

2	<p>Manufactured Elements</p> <p>Elements manufactured or designed by the Contractor, such as manhole rings and cover slabs, precast concrete planks and pipes, masonry units and edge beams shall not individually, have a mass of more than 320kg. In addition, the items shall be large enough so that four workers can conveniently and simultaneously acquire a proper hand hold on them.</p>
<p>SANS 1921-6, Construction and management requirements for works contracts – Part 6: HIV/AIDS awareness.</p>	
4.2.1(a)	<p>A qualified service provider is a service provider that is one that is accredited or provisionally accredited training service provider in the HIV/AIDS field.</p> <p>A list of accredited service providers can be obtained from the Construction SETA (CETA) (tel 011-265 5900), Health and Welfare SETA (HWSETA) (011-622 6852) or on the Health and Welfare SETA website: www.hwseta.org.za.</p>
4.2.1(a)	<p>The HIV/AIDS awareness programme is to be repeated at four-month intervals throughout the duration of the contract. (Four times in total, including the initial one at the start of the contract.)</p>
<p>Additional clauses</p>	
	<p>The duration of each workshop is not to be less than 2 ½ hours.</p>

a. Recording of weather

The Contractor shall erect an effective rainfall gauge on the site and record the daily rainfall figures in a book. Such book shall be handed to the employer's representative for his signature no later than 1 days after rain that is considered to justify an extension of time occurs.

b. Unauthorised persons

The Contractor shall keep unauthorized persons from the works at all times. Under no circumstances may any person except guards be allowed to sleep on the building site.

c. Management meetings

A Schedule of meetings will be agreed with the contractor.

d. Daily records

The Contractor is instructed to keep a set of signed off daily diaries with specific detail relating to EPWP requirements.

e. Payment certificates

Payment Certificates will be done as per Clause 31.0 of the JBCC Principal Building Agreement Edition 4.1 March 2005. Payments will not be processed unless all the required job creation statistics and all supporting information are attached to the claim for payment.

f. **Job statistics/targeted labour**

The contractor must provide monthly statistics to the DBSA indicating the number of new jobs created through this contract. This statistic **must be provided with each monthly payment certificate** using the electronic prescribed format, which will be provided by the Project Manager of this project to the successful bidder.

5.7.1 **Training of targeted labour (non-accredited training)**

- a) The Contractor shall provide all the necessary on-the-job training to targeted labour to enable such labour to master the basic work techniques required to undertake the work in accordance with the requirements of the contract in a manner that does not compromise worker health and safety.
- b) The contractor shall be responsible for scheduling the training of workers and shall take all reasonable steps to ensure that each beneficiary is provided with a minimum of six (6) days of formal training if he/she is employed for 3 months or less and a minimum of ten (10) days if he/she is employed for 4 months or more.
- c) The Contractor shall do nothing to dissuade targeted labour from participating in training programmes.
- d) Proof of compliance with all the requirements must be provided by the Contractor to the Employer prior to submission of the final payment certificate.

5.7.2 **Employment of local labour**

- a) It is the intention that this Contract should make maximum use of the local labour force that is presently under-employed. To this end the Contractor shall limit the utilisation on the Contract of non-local employees to that of key personnel only and to employ and train local labour to the extent necessary for the execution and completion of this Contract.
- b) The Contractor shall fill in the form entitled Key Personnel in the Forms to be completed by the Bidder. The data stated on the above-mentioned form will be strictly monitored during the Contract period and any deviations there from shall be subject to the prior approval of the Principal Agent, which approval shall not be unreasonably withheld.
- c) The employment of casual labour will be done in co-operation with community leaders and local structures. The bidder shall ensure that all remuneration paid to employees is in line with the relevant sectorial determination in terms of the Basic Conditions of Employment Act, No

75 of 1997, as determined by the Department of Labour.

5.7.3. DECANTING PLAN

Where temporary decanting structures are required in terms of the Site Development Plan (Refer Section C5), such structures shall be constructed in accordance with drawings provided by the professional team at the start of the project and before work commences on buildings in use. The Contractor shall programme the works as such and submit the programme to the Professional Team for approval of the sequencing of the works.

C3.2 PARTICULAR SPECIFICATIONS

In addition to the Standardized and Project Specifications the following Particular Specifications shall apply to this contract and are bound in hereafter.

PARTICULAR SPECIFICATION

PAGE NO.

POHS: HEALTH AND SAFETY BASELINE SPECIFICATIONS
& AMENDMENTS FOR COVID-19

Annexure A

B/RA: BASELINE RISK ASSESSMENT &
AMENDMENTS FOR COVID-19

Annexure B

SHEQ: DBSA SHEQ POLICY

Annexure C

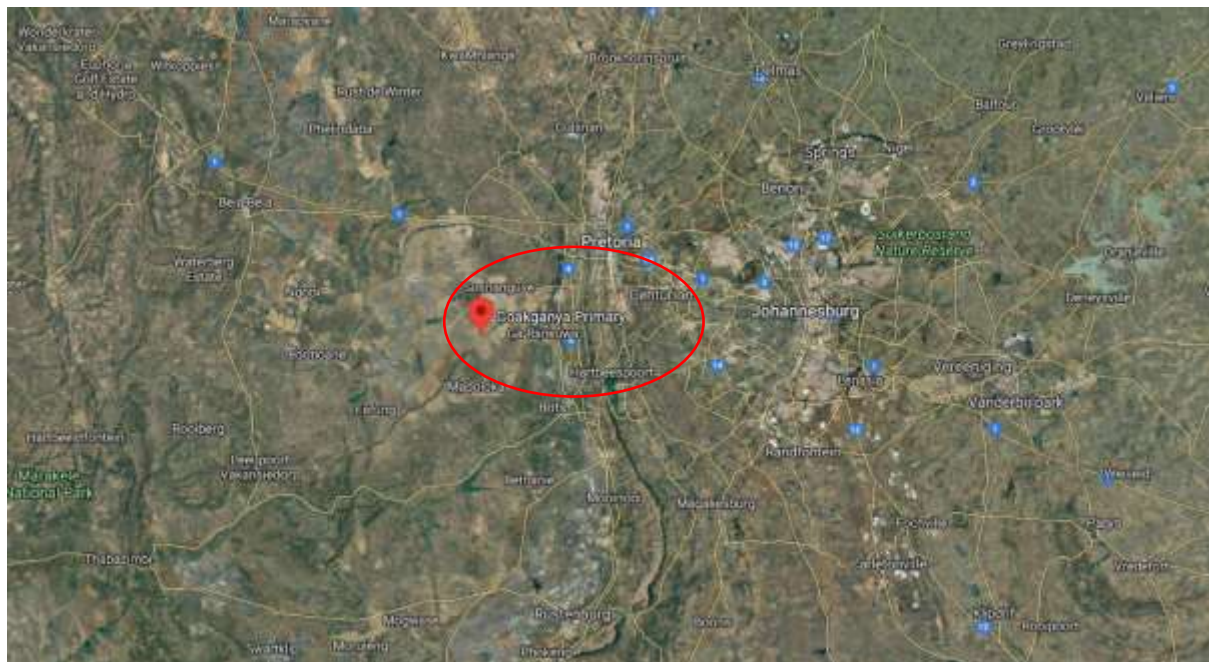
C3.3 DRAWINGS

Full Drawing List Attached.

PART 4: SITE INFORMATION

Document reference	Title	No of pages
	This cover page	1
C4.1	<i>Site Location – Map</i>	1
	Total number of pages	2

C4.1 Locality Map: Gaokganya Primary School



Address:

Portion 85 of Portion 4 of the The Farm Klipgat No. 249-JQ,

Phasha Village, Klipgat in the Madibeng Local Municipality in the Bojanala District Municipality

North West, South Africa

Latitude: 25°26'32.06"S Longitude: 27°58'43.85"E.