

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**



South African National Biodiversity Institute

SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI)

Bid No. SANBI: G379/2021

**REQUEST FOR BIDS FOR THE APPOINTMENT OF A CONTRACTOR FOR
THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF
FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION
OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN
NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA
NATIONAL BOTANICAL GARDEN, EASTERN CAPE**

PROCUREMENT DOCUMENT

JANUARY 2021

Issued by:

South African National Biodiversity Institute
Private Bag X101
Silverton
0184
Gauteng

Contact:

Supply Chain Management
eMail: sanbi.tenders@sanbi.org.za

Prepared by:

Mokate Monk & du Plessis
PO Box 8370
Nahoon
5210

Contact:

Mr. K Rennie
Tel: 043 721 0667
eMail: keith@mmdp.co.za

Name of Tenderer:

Address:

Tel No.: **Fax No.:**

eMail:



Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be read as words "Tender" or "Tenderer".

EXPANDED PUBLIC WORKS PROGRAMME

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

INDEX

PART T THE TENDER

Part T1 Tendering Procedures

T1.1 Tender Notice and Invitation to Tender

T1.2 Tender Data

Annexure C: Standard Conditions of Tender

Part T2 Returnable Documents

T2.1 List of Returnable Documents

T2.2 Returnable Documents/Schedules

PART C THE CONTRACT

Part C1 Agreement and Contract Data

C1.1 Form of Offer and Acceptance

C1.2 Contract Data

C1.3 Form of Construction Guarantee

C1.4 Occupational Health & Safety Agreement 37(2)

Part C2 Pricing Data

C2.1 Pricing Instructions

C2.2 Bills of Quantities

Part C3 Scope of works

C3.1 Description of the Works

C3.2 Construction

C3.3 Management

Part C4 Site information

C4.1 Site Information

Annexures

Annexure B: Drawings

Annexure C: Health & Safety Specifications

Annexure D: Guidelines for the Implementation of Labour- Intensive Projects under the Expanded Public Works Programme (EPWP)

Annexure E: Geotechnical Report

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

PART T: THE TENDER

Part T1: Tendering Procedures

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

Advertising Date:	29 January 2021	Closing Date:	26 February 2021
Closing Time:	11:00	Validity Period:	90 days

T1.1 Tender Notice and Invitation to Tender

THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE INVITES TENDERERS FOR THE PROVISION OF: APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE

Tender documents will be available as from **29 January 2021** and will be available **ONLINE ONLY** on the SANBI website www.sanbi.org (click on "Opportunities").

Only Tenderers who can demonstrate that they will have in their employ staff which satisfy EPWP requirements during the contract validity, are eligible to submit tenders.

A non-compulsory site briefing session will take place on site on 9 February 2021 from 9:00 at the Kwelera National Botanical Garden Offices (Farm No. 1505, Road DR02731, Kwelera). To comply with the COVID -19 pandemic social distancing guidelines and protocols, only one representative per service provider will be allowed to attend the scheduled non-compulsory site briefing session. Bidders are advised that the non-compulsory briefing session will have three time slots, 9:00 – 10:00, 10:30 – 11:30 and 12:00 – 13:00 with a limited number of attendees. Bidders who wish to attend any of the time slots are advised to make a booking with the Principal Agent Mr Gavin Hollis (043) 726 0074. Failure to make a booking will lead to non-entry into the garden. Bidders are encouraged to direct all technical and bidding procedure enquiries to the email addresses below.

Department: Supply Chain Management
eMail: sanbi.tenders@sanbi.org.za
Cc: keith@mmdp.co.za and amjad.hendricks@zutari.com
Cut-off date for enquiries: **17 February 2021 at 12:00**

Any queries regarding the tender document or any related matter prior to submission of tenders must be directed to:

SANBI Representative (Technical Queries Only)	Mr Gavin Hollis Element Consulting Engineers ghollis@eceng.co.za
SANBI SCM Representative	sanbi.tenders@sanbi.org.za

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

The closing time and date for the receipt of tenders is **11:00 on 26 February 2021**.

The tenders will **NOT** be opened in public (please note that the two-envelope system is being followed). Requirements for sealing, addressing, delivery, opening and assessment of tenders are stated in the Tender Data.

T1.2 Tender Data

The Conditions of Tender are the Standard Conditions of Tender as contained in Annex C of the CIDB Standard for Uniformity in Engineering and Construction Works Contracts – August 2019 (see www.cidb.org.za).

The Standard Conditions of Tender make several references to the Tender Data for details that apply specifically to this tender. The Tender Data shall have precedence in the interpretation of any ambiguity or inconsistency between it and the Standard Conditions of Tender.

Each item of data given below is cross-referenced to the clause in the Standard Conditions of Tender to which it mainly applies.

Clause number	Tender Data
C.1.1.1	The Employer is: South African National Biodiversity Institute (SANBI): The Employer's <i>domicilium citandi et executandi</i> (permanent physical business address) is: Pretoria National Botanical Garden Biodiversity Centre 2 Cussonia Avenue, Brummeria, Pretoria The Employer's address for communication relating to this project is: Private Bag X101 Silverton 0184
C.1.2	The Tender Documents issued by the Employer comprise the following documents: PART T THE TENDER Part T1 Tendering Procedures T1.1 Tender Notice and Invitation to Tender T1.2 Tender Data Annexure C Standard Conditions of Tender Part T2 Returnable Documents T2.1 List of Returnable Documents T2.2 Returnable Documents/Schedules PART C THE CONTRACT Part C1 Agreement and Contract Data C1.1 Form of Offer and Acceptance C1.2 Contract Data C1.3 Form of Construction Guarantee C1.4 Occupational Health & Safety Agreement 37(2) Part C2 Pricing Data C2.1 Pricing Instructions C2.2 Bills of Quantities Part C3 Scope of works

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Clause number	Tender Data
	C3.1 Description of the Works C3.2 Construction C3.3 Management Part C4 Site information C4.1 Site Information Annexure B: Drawings Annexure C: Health & Safety Specifications Annexure D: Guidelines for the Implementation of Labour- Intensive Projects under the Expanded Public Works Programme (EPWP) Annexure E: Geotechnical Report
C.1.4	The Employer's Agent is: Element Consulting Engineers 52 Stewart Drive, Baysville, East London Contact person: Gavin Hollis Tel: +27 43 726 0074 Fax: +27 43 726 0600 eMail: ghollis@eceng.co.za
C.2.1	Only those Tenderers who satisfy the following eligibility criteria are eligible to submit tenders Only those Tenderers who score the minimum score in respect of the quality criteria stated in C.3.11.1 of this Tender Data shall be considered responsive and have their tenders evaluated further. (a) CIDB registration Only those Tenderers who are registered with the CIDB, or are capable of being so prior to the evaluation of submissions, in a Contractor grading designation equal to or higher than a Contractor grading designation determined in accordance with the sum tendered, or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations, for a 7GB class of construction work, are eligible to have their tenders evaluated. Joint ventures are eligible to submit Tenders provided that: - every member of the joint venture is registered with the CIDB; - the lead partner has a Contractor grading designation in the 7GB class of construction work; and - the combined Contractor grading designation calculated in accordance with the Construction Industry Development Regulations is equal to or higher than a Contractor grading designation determined in accordance with the sum tendered for a 7GB class of construction work or a value determined in accordance with Regulation 25 (1B) or 25(7A) of the Construction Industry Development Regulations. (b) National Treasury Central Supplier Database Tenderers who are not registered on the National Treasury Central Supplier Database at close of tender, shall submit a copy of their application of registration, with their Tender submission. Tenders received from such Tenderers who have not submitted proof of their registration within 21 days after the closing date for tender submissions, will not be considered.
C.2.6	Failure to apply instructions contained in addenda may render a Tenderer's offer non-responsive in terms of clause C.3.8.
C.2.7	The arrangements for a non-compulsory clarification meeting are as stated in the Tender Notice and Invitation to Tender.
C.2.8	Request clarifications at least 7 working days before the closing time.
C.2.12	Main Tender Offers are required to be submitted together with alternative tenders. If a Tenderer wishes to submit an alternative Tender Offer, the only criteria permitted for such alternative Tender Offer is that it demonstrably satisfies the Employer's standards and requirements, the details of which may be obtained from the Employer's Agent.

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Clause number	Tender Data
	Calculations, drawings and all other pertinent technical information and characteristics as well as modified or proposed Pricing Data must be submitted with the alternative Tender Offer to enable the Employer to evaluate the efficacy of the alternative and its principal elements, to take a view on the degree to which the alternative complies with the Employer's standards and requirements and to evaluate the acceptability of the pricing proposals. Calculations must be set out in a clear and logical sequence and must clearly reflect all design assumptions. Pricing Data must reflect all assumptions in the development of the pricing proposal. Acceptance of an alternative Tender Offer will mean acceptance in principle of the offer. It will be an obligation of the contract for the Tenderer, in the event that the alternative is accepted, to accept full responsibility and liability that the alternative offer complies in all respects with the Employer's standards and requirements. The modified Pricing Data must include an amount equal to 5% of the amount tendered for the alternative offer to cover the Employer's costs in confirming the acceptability of the detailed design.
C.2.13.6	A two-envelope procedure will be followed as described in clause C.2.13.7.
C.2.13.7	Tenderers shall note the specific requirements for packaging of their Tender Documents and include only the following: - Financial: 1 original document marked "Original" including Form of Offer and Acceptance, Estimated Monthly Expenditure and Priced Bills of Quantities; and - Technical: 1 copy excluding Form of Offer and Acceptance, Estimated Monthly Expenditure and Priced Bills of Quantities. INCLUSION OF ANY PRICING INFORMATION ANYWHERE IN THE ONE COPY WILL LEAD TO THE BID BEING DISQUALIFIED. The original document will be placed in one envelope and the one copy will be placed in another envelope. The two envelopes shall be placed together in an outer envelope sealed and bearing the following: - The address as stated in C.2.15.1 below - The identification details as stated in C.2.15.1 below - Name of the Tenderer - The words "Not be opened before the Tender opening" The Technical and Financial envelopes should also contain the details of the last three bullets on them. The Financial envelope must contain the words NOT TO BE OPENED WITH THE TECHNICAL ENVELOPE
C.2.13.9	Telephonic, telegraphic, telex, facsimile or eMailed Tender Offers will not be accepted.
C.2.15.1	The Employer's address for delivery of Tender Offers and identification details to be shown on each Tender Offer package are: Location of Tender Box: Biodiversity Centre Physical address: Pretoria National Botanical Garden 2 Cussonia Avenue Brummeria Pretoria Identification Details: Tender No.: SANBI: G379/2021 Title of Tender: Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.
C.2.15.2	The closing time for submission of Tender Offers is as stated in the Tender Notice and Invitation to Tender.
C.2.16.1	The Tender Offer validity period is 90 days.

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C.2.16.3	Where a Tenderer, at any time after the opening of his Tender Offer but prior to entering into a contract based on his Tender Offer: (1) withdraws his tender; (2) gives notice of his inability to execute the contract in terms of his tender; or (3) fails to comply with a request made in terms of C.2.17, C.2.18 or C.3.9 such Tenderer shall be barred from tendering on any of the Employer's future tenders for a period to be determined by the Employer, but not less than six (6) months, from the date of tender closure. The Employer may fully or partly exempt a Tenderer from the provisions of this condition if he is of the opinion that the circumstances justify the exemption.
C.2.18	The Tenderer shall, when requested by the Employer to do so, submit the names of all management and supervisory staff that will be employed to supervise the Labour-Intensive portion of the works together with satisfactory evidence that such staff members satisfy the eligibility requirements.
C.2.22	Tender documents will not be returned to Bidders.
C.2.23	The Tenderer is required to submit with his tender the following (failure to provide below documentation will result in the tender being rejected) : 1) A copy of the Central Suppliers Database (CSD) registration report or registration number. 2) A printed copy of the Active Contractor's Listing off the CIDB website (www.cidb.org.za) 3) UIF compliance demonstrated by submission of one of the following: • A valid copy of the UIF Letter of Compliance issued by the Department of Labour, or • Labour uFiling Employer Statement of Account indicating UIF payments or accruals not older than 12 months, or • SARS eFiling Employer Statement of Account indicating UIF payments or accruals not older than 12 months, or • Valid proof of exemption for UIF. 4) Letter of Good Standing from the Office of the Compensation Commissioner as required by the Compensation for Occupational Injuries and Diseases Act (COIDA). The letter should be issued by the Department of Labour. 5) A valid certified copy or original Broad-Based Black Economic Empowerment (B-BBEE) Status Level 1 certificate. Note that for this tender, the following pre-qualification criterion for preferential procurement will be applied: Section 4(1) a Tenderer having a B-BBEE Status Level of Contributor Level 1.
C.3.1.1	The Employer shall respond to clarifications received up to 7 working days before the tender closing time.
C.3.2	The Employer shall issue addenda until 5 working days before the tender closing time.
C.3.4.1	The tenders will not be opened in public
C.3.5.1	The two-envelope system will be followed for this tender.
C.3.7	In the event of disqualification, the Employer may, at his sole discretion, impose a specified period during which Tender Offers will not be accepted from the offending Tenderer and report same to the CIDB and National Treasury.
C.3.11.1	The procedure for the evaluation of responsive tenders is stated in Annexure A .
C.3.13	In addition to the requirements of the Condition of Tender, offers will only be accepted if: a) the Tenderer submits a copy of the CSD registration report or registration number (refer to T2.1.13); b) the Tenderer is registered with the Construction Industry Development Board in an appropriate Contractor grading designation (refer to T2.1.12); c) the Tenderer or any of its directors/shareholders is not listed on the Register of Tender Defaulters in terms of the Prevention and Combating of Corrupt Activities Act of 2004 as a person prohibited from doing business with the public sector (refer to SBD 8 – T2.1.17); d) the Tenderer has not (refer to SBD 8 – T2.1.17): i) abused the Employer's Supply Chain Management System; or ii) failed to perform on any previous contract and has been given a written notice to this effect; e) the Tenderer has completed the Compulsory Enterprise Questionnaire and there are no conflicts of interest which may impact on the Tenderer's ability to perform the contract in the best interests of the Employer or potentially compromise the tender process and persons in the employ of the state are permitted to submit tenders or participate in the contract (refer to T2.1.16); f) the Tenderer is registered and in good standing with the compensation fund issued by the Department of Labour (Letter of Good Standing from the Office of the Compensation Commissioner (COIDA)); g) the Employer is reasonably satisfied that the Tenderer has in terms of the Construction Regulations, 2014, issued in terms of the Occupational Health and Safety Act, 1993, the necessary competencies and resources to carry out the work safely. h) UIF compliance demonstrated by submission of one of the following: • A valid copy of the UIF Letter of Compliance issued by the Department of Labour, or

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

	• Labour uFiling Employer Statement of Account indicating UIF payments or accruals not older than 12 months, or • SARS eFiling Employer Statement of Account indicating UIF payments or accruals not older than 12 months, or • Valid proof of exemption for UIF. i) A valid certified copy or original Broad-Based Black Economic Empowerment (B-BBEE) Status Level 1 certificate. Note that for this tender, the following pre-qualification criterion for preferential procurement will be applied: Section 4(1) a Tenderer having a B-BBEE Status Level of Contributor Level 1.
F.2.1	Only those Tenderers who can demonstrate that they will have in their employ management and supervisory staff satisfying the requirements of the scope of work for labour-intensive competencies for supervisory and management staff during the validity of the contract, are eligible to submit tenders.
F.2.18	The Tenderer must submit to the Employer names of all management and supervisory staff that will be employed to supervise the labour-intensive portion of the works, together with satisfactory evidence that such staff members satisfy the eligibility requirements.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Annexure A

This Annexure contains all the criteria that the Employer shall use to evaluate tenders. In accordance with Clause C.3.11 of the Standard Conditions of Tender. No other factors, methods or criteria shall be used. The Tenderer shall provide all the information requested in the forms included in Part T2.2 – Returnable Schedules.

Tenders shall be evaluated in three stages as follows

- Stage 1 – Evaluation of Eligibility and Administrative Compliance
- Stage 2 – Evaluation of Functionality
- Stage 3 – Evaluation of Tender Price and Preference

1 Stage 1: Eligibility and Administrative Compliance

The first stage will determine whether tenders are compliant with all mandatory and disqualifiable submission requirements. Tenderers that are deemed compliant will be eligible for further evaluation.

The criteria as identified in Clauses C.2.23 and C.3.13 in the Tender Data will be used to determine the tenders' eligibility.

For administrative compliance, the Tenderers must complete all the returnable forms in Part T2.2, the Bills of Quantities and the Offer section in Part C1.1.

2 Stage 2: Functionality

The Tenderers who complied with the eligibility and administrative criteria in Stage 1, are considered for further evaluation on their capability to execute the project.

In this stage tenders will be evaluated on functionality according to the criteria listed below. Tenderers who fail to score a minimum of 70 points out of a possible 100 points on functionality criteria, will not be eligible for further consideration.

Scoring quality

The functionality (quality) evaluation criteria are listed below. Maximum points for each criterion are in bold while points for each sub-criteria are indicated in brackets.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

FUNCTIONALITY CRITERIA		
ID	CRITERIA	POINTS
1	Implementation method and project plan or programme - Method to be followed in delivering this project - Weekly plan/programme with milestones	20 (10) (10)
2	Contractor's Experience - Three reference letters regarding work of similar scope and scale completed in last three years - List of at least five conventional projects with telephonic references, indicating value of works completed and project duration - List of at least five labour intensive construction projects with telephonic references, indicating value of works completed and project duration	55 (15) (15) (25)
3	Contractor's Resources – Personnel and Plant Proposed personnel: - CV's for proposed key personnel indicating: - Previous work experience - Total number of years' working experience in construction - Individual experience on similar work in last five years - Qualifications or artisan's certification or other recognised training courses completed - Membership of professional bodies or guilds Plant: - Equipment owned by Contractor - Equipment to be rented (if any) – with preferred rental companies	25 (20) (5)
TOTAL		100

Functionality shall be scored by not less than three evaluators in accordance with the following schedules:

Each evaluation criterion will be assessed in terms of five indicators – no response, poor, satisfactory, acceptable, good and very good. Scores ranging from 0 to 5 will be allocated to no response, very poor, poor, acceptable, good and very good responses, respectively. The scores submitted by each of the evaluators will be averaged, weighted and then totalled to obtain the final score for functionality. The prompts for judgment and the associated scores used in the evaluation of quality shall be as follows:

Score	Prompt for judgement
0	Failed to address the question/issue
1	Very poor response - response/answer/solution lacks convincing evidence of skill/experience sought or medium risk that relevant skills will not be available
2	Poor response – some elements of the response/answer/solution are present, but documentary evidence is mostly lacking in respect of the required information
3	Acceptable response/answer/solution to the particular aspect of the requirements and evidence given of skill /experience sought
4	Above acceptable – response/answer/solution demonstrating real understanding of requirements and evidence of ability to meet it
5	Excellent - response/answer/solution provides confidence that the Tenderer will add real value to the project

The minimum number of evaluation points for functionality proposal is **70 points** in order to progress to Stage 3 of the evaluation

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

3 Stage 3: Tender Price and Preference

The Tenderers who complied with the functionality criteria in Stage 2, are considered for further evaluation in terms of their Tender Price and Preference Points.

3.1 Correction of arithmetical errors

Pursuant to clause C.3.9 of the Standard Conditions of Tender as amended in the Tender Data, correction of arithmetical errors shall be undertaken.

3.2 Calculation of score for Tender Price

The score for Tender Price shall be calculated using the following formula:

$$N_F = W_f \times \left[1 - \left(\frac{P_t - P_{min}}{P_{min}} \right) \right]$$

Where:

N_F = the score for Tender Price awarded for the tender under consideration

W_f = the weighting given to financial offer, determined as follows:

- 90 where the Tender Price, inclusive of VAT, of all responsive Tender Offers received has a value in excess of R50 000 000,00; or
- 80 where the Tender Price, inclusive of VAT, of one or more responsive Tender Offers has a value that equals or is less than R50 000 000,00.

P_t = Tender Price of the tender under consideration

P_{min} = Tender Price of the lowest responsive tender

In the event that the calculated value of N_F is negative, the allocated score shall be 0

3.3 Calculation of Preference points

Up to 100 minus W_f tender evaluation points will be awarded to Tenderers who submit responsive tenders and who are found to be eligible for the preference claimed. Points are based on a Tenderer's scorecard measured in terms of the Broad-Based Black Economic Empowerment Act (B-BBEE, Act 53 of 2003) and the Regulations (2017) to the Preferential Procurement Policy Framework Act (PPPFA, Act 5 of 2000).

Points awarded will be according to a Tenderer's B-BBEE status level of contributor and summarised in the table below:

B-BBEE Status Level of contributor	Qualification	Number of Points for Contract value up to R50 000 000	Number of Points for Contract Value above R50 000 000
1	≥ 100 points	20	10
2	≥ 85 but < 100 points	18	9
3	≥ 75 but < 85 points	14	6
4	≥ 65 but < 75 points	12	5
5	≥ 55 but < 65 points	8	4
6	≥ 45 but < 55 points	6	3
7	≥ 40 but < 45 points	4	2
8	≥ 30 but < 40 points	2	1
Non-compliant Contributor	< 30 points	0	0

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Eligibility for preference points is subject to the following conditions:

- (1) A Tenderer's scorecard shall be based on the Construction Sector Codes of Practice promulgated in Government Gazette 32305 of 5 June 2009, only if such certificate has been issued before 17 February 2016; alternatively a B-BBEE Certificate issued in accordance with the revised Notice of Clarification published in Notice 444 of 2015 of Government Gazette No.38799 on 15 May 2015 by the Department of Trade and Industry; and
- (2) The scorecard shall be submitted as a certificate attached to Returnable Schedule Form T2.1.06; and
- (3) The certificate shall:
 - (a) be an original or an original certified copy of the original; and
 - (b) have been issued by a verification agency accredited by the South African National Accreditation System (SANAS); or
 - (c) have been issued by a registered auditor approved by the Independent Regulatory Board of Auditors (IRBA), and
- (4) The Verification Certificate must be valid at the tender closing date; and
- (5) The date of issue of the certificate must be less than 12 (twelve) months prior to the advertised tender closing date (see Tender Data C.2.15.2); and
- (6) Compliance with any other information requested to be attached to Form T2.1.06; and
- (7) If a Tenderer claims a preference score without submitting an acceptable verification certificate, a period of 24 hours will be granted to submit an acceptable verification certificate which was valid at date of tender closure; and
- (8) Failure to submit a valid verification certificate will result in the award of 0 (zero) points for preference; and
- (9) In the event of a joint venture (JV), a consolidated B-BBEE verification certificate in the name of the JV shall be submitted.

3.4 Financial and Preference

After calculation of the scores for Tender Price and for Preference, a combined score will be calculated as follows:

$$NT = NF + NP$$

Where:

NT = Total score for tender under consideration

NF = Score for Tender Price

NP = Score for Preference

The tender with the highest score should be recommended for appointment.

Annexure C: Standard Conditions of Tender

C.1 General

C.1.1 Actions

C.1.1.1 The Employer and each Tenderer submitting a Tender Offer shall comply with these Conditions of Tender. In their dealings with each other, they shall discharge their duties and obligations as set out in C.2 and C.3, timeously and with integrity, and behave equitably, honestly and transparently, comply with all legal obligations and not engage in anticompetitive practices.

C.1.1.2 The Employer and the Tenderer and all their agents and employees involved in the tender process shall avoid conflicts of interest and where a conflict of interest is perceived or known, declare any such conflict of interest, indicating the nature of such conflict. Tenderers shall declare any potential conflict of interest in their tender submissions. Employees, agents and advisors of the Employer shall declare any conflict of interest to whoever is responsible for overseeing the procurement process at the start of any deliberations relating to the procurement process or as soon as they become aware of such conflict and abstain from any decisions where such conflict exists or recuse themselves from the procurement process, as appropriate.

Note:

- 1) *A conflict of interest may arise due to a conflict of roles which might provide an incentive for improper acts in some circumstances. A conflict of interest can create an appearance of impropriety that can undermine confidence in the ability of that person to act properly in his or her position even if no improper acts result.*
- 2) *Conflicts of interest in respect of those engaged in the procurement process include direct, indirect or family interests in the tender or outcome of the procurement process and any personal bias, inclination, obligation, allegiance or loyalty which would in any way affect any decisions taken.*

C.1.1.3 The Employer shall not seek, and a Tenderer shall not submit a tender without having a firm intention and the capacity to proceed with the contract.

C.1.2 Tender Documents

The documents issued by the Employer for the purpose of a Tender Offer are listed in the Tender Data.

C.1.3 Interpretation

C.1.3.1 The Tender Data and additional requirements contained in the tender schedules that are included in the returnable documents are deemed to be part of these Conditions of Tender.

C.1.3.2 These Conditions of Tender, the Tender Data and tender schedules which are required for tender evaluation purposes, shall form part of any contract arising from the Invitation to Tender.

C.1.3.3 For the purposes of these Conditions of Tender, the following definitions apply:

- a) **conflict of interest** means any situation in which:
 - i) someone in a position of trust has competing professional or personal interests which make it difficult to fulfill his or her duties impartially;
 - ii) an individual or Tenderer is in a position to exploit a professional or official capacity in some way for their personal or corporate benefit; or
 - iii) incompatibility or contradictory interests exist between an employee and the Tenderer who employs that employee.
- b) **comparative offer** means the price after the factors of a non-firm price and all unconditional discounts it can be utilised to have been taken into consideration;
- c) **corrupt practice** means the offering, giving, receiving or soliciting of anything of value to influence the action of the Employer or his staff or agents in the tender process;
- d) **fraudulent practice** means the misrepresentation of the facts in order to influence the tender process or the award of a contract arising from a Tender Offer to the detriment of the Employer, including collusive practices intended to establish prices at artificial levels;

C.1.4 Communication and Employer's agent

Each communication between the Employer and a Tenderer shall be to or from the Employer's agent only, and in a form that can be readily read, copied and recorded. Communications shall be in the English language. The

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Employer shall not take any responsibility for non-receipt of communications from or by a Tenderer. The name and contact details of the Employer's agent are stated in the Tender Data.

C.1.5 Cancellation and Re-Invitation of Tenders

C.1.5.1 An Employer may, prior to the award of the tender, cancel a tender if-

- a) due to changed circumstances, there is no longer a need for the engineering and construction works specified in the invitation;
- b) funds are no longer available to cover the total envisaged expenditure; or
- c) no acceptable tenders are received.
- d) there is a material irregularity in the tender process.

C.1.5.2 The decision to cancel a tender invitation must be published in the same manner in which the original tender invitation was advertised

C.1.5.3 An Employer may only with the prior approval of the relevant treasury cancel a tender invitation for the second time.

C.1.6 Procurement procedures**C.1.6.1 General**

Unless otherwise stated in the Tender Data, a contract will, subject to C.3.13, be concluded with the Tenderer who in terms of C.3.11 is the highest ranked or the Tenderer scoring the highest number of tender evaluation points, as relevant, based on the Tender submissions that are received at the closing time for tenders.

C.1.6.2 Competitive negotiation procedure

C.1.6.2.1 Where the Tender Data require that the competitive negotiation procedure is to be followed, Tenderers shall submit Tender Offers in response to the proposed contract in the first round of submissions. Notwithstanding the requirements of C.3.4, the Employer shall announce only the names of the Tenderers who make a submission. The requirements of C.3.8 relating to the material deviations or qualifications which affect the competitive position of Tenderers shall not apply.

C.1.6.2.2 All responsive Tenderers or at least a minimum of not less than three responsive Tenderers that are highest ranked in terms of the evaluation criteria stated in the Tender Data shall be invited to enter into competitive negotiations based on the principle of equal treatment, keeping confidential the proposed solutions and associated information.

Notwithstanding the provisions of C.2.17, the Employer may request that tenders be clarified, specified and fine-tuned in order to improve a Tenderer's competitive position provided that such clarification, specification, fine-tuning or additional information does not alter any fundamental aspects of the offers or impose substantial new requirements which restrict or distort competition or have a discriminatory effect.

C.1.6.2.3 At the conclusion of each round of negotiations, Tenderers shall be invited by the Employer to revise their Tender Offers based on the same evaluation criteria, with or without adjusted weightings. Tenderers shall be advised when they are to submit their best and final offer.

C.1.6.2.4 The contract shall be awarded in accordance with the provisions of C.3.11 and C.3.13 after Tenderers have been requested to submit their best and final offer.

C.1.6.3 Proposal procedure using the two stage-system**C.1.6.3.1 Option 1**

Tenderers shall in the first stage submit technical proposals and, if required, cost parameters around which a contract may be negotiated. The Employer shall evaluate each responsive submission in terms of the method of evaluation stated in the Tender Data, and in the second stage negotiate a contract with the Tenderer scoring the highest number of evaluation points and award the contract in terms of these Conditions of Tender.

C.1.6.3.2 Option 2

C.1.6.3.2.1 Tenderers shall submit in the first stage only technical proposals. The Employer shall invite all responsive Tenderers to submit Tender Offers in the second stage, following the issuing of procurement documents.

C.1.6.3.2.2 The Employer shall evaluate tenders received during the second stage in terms of the method of evaluation stated in the Tender Data and award the contract in terms of these Conditions of Tender.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C.2 Tenderer's obligations**C.2.1 Eligibility**

C.2.1.1 Submit a Tender Offer only if the Tenderer satisfies the criteria stated in the Tender Data and the Tenderer, or any of his principals, is not under any restriction to do business with Employer.

C.2.1.2 Notify the Employer of any proposed material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used by the Employer as the basis in a prior process to invite the Tenderer to submit a Tender Offer and obtain the Employer's written approval to do so prior to the closing time for tenders.

C.2.2 Cost of Tendering

C.2.2.1 Accept that, unless otherwise stated in the Tender Data, the Employer will not compensate the Tenderer for any costs incurred in the preparation and submission of a Tender Offer, including the costs of any testing necessary to demonstrate that aspects of the offer complies with requirements.

C.2.2.2 The cost of the tender documents charged by the Employer shall be limited to the actual cost incurred by the Employer for printing the documents. Employers must attempt to make available the tender documents on its website so as not to incur any costs pertaining to the printing of the tender documents.

C.2.3 Check documents

Check the tender documents on receipt for completeness and notify the Employer of any discrepancy or omission.

C.2.4 Confidentiality and copyright of documents

Treat as confidential all matters arising in connection with the tender. Use and copy the documents issued by the Employer only for the purpose of preparing and submitting a Tender Offer in response to the invitation.

C.2.5 Reference documents

Obtain, as necessary for submitting a Tender Offer, copies of the latest versions of standards, specifications, conditions of contract and other publications, which are not attached but which are incorporated into the tender documents by reference.

C.2.6 Acknowledge addenda

Acknowledge receipt of addenda to the Tender documents, which the Employer may issue, and if necessary apply for an extension to the closing time stated in the Tender Data, in order to take the addenda into account.

C.2.7 Clarification meeting

Attend, where required, a clarification meeting at which Tenderers may familiarize themselves with aspects of the proposed work, services or supply and raise questions. Details of the meeting(s) are stated in the Tender Data.

C.2.8 Seek clarification

Request clarification of the tender documents, if necessary, by notifying the Employer at least five (5) working days before the closing time stated in the Tender Data.

C.2.9 Insurance

Be aware that the extent of insurance to be provided by the Employer (if any) might not be for the full cover required in terms of the Conditions of Contract identified in the Contract Data. The Tenderer is advised to seek qualified advice regarding insurance.

C.2.10 Pricing the Tender Offer

C.2.10.1 Include in the rates, prices, and the tendered total of the prices (if any) all duties, taxes except Value Added Tax (VAT), and other levies payable by the successful Tenderer, such duties, taxes and levies being those applicable fourteen (14) days before the closing time stated in the Tender Data.

C.2.10.2 Show VAT payable by the Employer separately as an addition to the tendered total of the prices.

C.2.10.3 Provide rates and prices that are fixed for the duration of the contract and not subject to adjustment except as provided for in the Conditions of Contract identified in the Contract Data.

C.2.10.4 State the rates and prices in Rand unless instructed otherwise in the Tender Data. The Conditions of Contract identified in the Contract Data may provide for part payment in other currencies.

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C.2.11 Alterations to documents

Do not make any alterations or additions to the tender documents, except to comply with instructions issued by the Employer, or necessary to correct errors made by the Tenderer. All signatories to the Tender Offer shall initial all such alterations.

C.2.12 Alternative Tender Offers

C.2.12.1 Unless otherwise stated in the Tender Data, submit alternative Tender Offers only if a main Tender Offer, strictly in accordance with all the requirements of the tender documents, is also submitted as well as a schedule that compares the requirements of the tender documents with the alternative requirements that are proposed.

C.2.12.2 Accept that an alternative Tender Offer must be based only on the criteria stated in the Tender Data or criteria otherwise acceptable to the Employer.

C.2.12.3 An alternative Tender Offer must only be considered if the main Tender Offer is the winning tender.

C.2.13 Submitting a Tender Offer

C.2.13.1 Submit one Tender Offer only, either as a single tendering entity or as a member in a joint venture to provide the whole of the works identified in the Contract Data and described in the scope of works, unless stated otherwise in the Tender Data.

C.2.13.2 Return all returnable documents to the Employer after completing them in their entirety, either electronically (if they were issued in electronic format) or by writing legibly in non-erasable ink.

C.2.13.3 Submit the parts of the Tender Offer communicated on paper as an original plus the number of copies stated in the Tender Data, with an English translation of any documentation in a language other than English, and the parts communicated electronically in the same format as they were issued by the Employer.

C.2.13.4 Sign the original and all copies of the Tender Offer where required in terms of the Tender Data. The Employer will hold all authorized signatories liable on behalf of the Tenderer. Signatories for Tenderers proposing to contract as joint ventures shall state which of the signatories is the lead partner whom the Employer shall hold liable for the purpose of the Tender Offer.

C.2.13.5 Seal the original and each copy of the Tender Offer as separate packages marking the packages as "ORIGINAL" and "COPY". Each package shall state on the outside the Employer's address and identification details stated in the Tender Data, as well as the Tenderer's name and contact address.

C.2.13.6 Where a two-envelope system is required in terms of the Tender Data, place and seal the returnable documents listed in the Tender Data in an envelope marked "financial proposal" and place the remaining returnable documents in an envelope marked "technical proposal". Each envelope shall state on the outside the Employer's address and identification details stated in the Tender Data, as well as the Tenderer's name and contact address.

C.2.13.7 Seal the original Tender Offer and copy packages together in an outer package that states on the outside only the Employer's address and identification details as stated in the Tender Data.

C.2.13.8 Accept that the Employer will not assume any responsibility for the misplacement or premature opening of the Tender Offer if the outer package is not sealed and marked as stated.

C.2.13.9 Accept that Tender Offers submitted by facsimile or e-mail will be rejected by the Employer, unless stated otherwise in the Tender Data.

C.2.14 Information and data to be completed in all respects

Accept that Tender Offers, which do not provide all the data or information requested completely and in the form required, may be regarded by the Employer as non-responsive.

C.2.15 Closing time

C.2.15.1 Ensure that the Employer receives the Tender Offer at the address specified in the Tender Data not later than the closing time stated in the Tender Data. Accept that proof of posting shall not be accepted as proof of delivery.

C.2.15.2 Accept that, if the Employer extends the closing time stated in the Tender Data for any reason, the requirements of these Conditions of Tender apply equally to the extended deadline.

C.2.16 Tender Offer validity

C.2.16.1 Hold the Tender Offer(s) valid for acceptance by the Employer at any time during the validity period stated in the Tender Data after the closing time stated in the Tender Data.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

-
- C.2.16.2 If requested by the Employer, consider extending the validity period stated in the Tender Data for an agreed additional period with or without any conditions attached to such extension.
- C.2.16.3 Accept that a tender submission that has been submitted to the Employer may only be withdrawn or substituted by giving the Employer's agent written notice before the closing time for tenders that a tender is to be withdrawn or substituted. If the validity period stated in C.2.16 lapses before the Employer evaluating tenders, the Contractor reserves the right to review the price based on Consumer Price Index (CPI).
- C.2.16.4 Where a tender submission is to be substituted, a Tenderer must submit a substitute tender in accordance with the requirements of C.2.13 with the packages clearly marked as "SUBSTITUTE".
- C.2.17 Clarification of Tender Offer after submission**
- Provide clarification of a Tender Offer in response to a request to do so from the Employer during the evaluation of Tender Offers. This may include providing a breakdown of rates or prices and correction of arithmetical errors by the adjustment of certain rates or item prices (or both). No change in the competitive position of Tenderers or substance of the Tender Offer is sought, offered, or permitted.
- Note:** *Sub-clause C.2.17 does not preclude the negotiation of the final terms of the contract with a preferred Tenderer following a competitive selection process, should the Employer elect to do so.*
- C.2.18 Provide other material**
- C.2.18.1 Provide, on request by the Employer, any other material that has a bearing on the Tender Offer, the Tenderer's commercial position (including notarized joint venture agreements), preferencing arrangements, or samples of materials, considered necessary by the Employer for the purpose of a full and fair risk assessment.
- Should the Tenderer not provide the material, or a satisfactory reason as to why it cannot be provided, by the time for submission stated in the Employer's request, the Employer may regard the Tender Offer as non-responsive.
- C.2.18.2 Dispose of samples of materials provided for evaluation by the Employer, where required.
- C.2.19 Inspections, tests and analysis**
- Provide access during working hours to premises for inspections, tests and analysis as provided for in the Tender Data.
- C.2.20 Submit securities, bonds and policies**
- If requested, submit for the Employer's acceptance before formation of the contract, all securities, bonds, guarantees, policies and certificates of insurance required in terms of the conditions of contract identified in the Contract Data.
- C.2.21 Check final draft**
- Check the final draft of the contract provided by the Employer within the time available for the Employer to issue the contract.
- C.2.22 Return of other Tender documents**
- If so instructed by the Employer, return all retained tender documents within twenty-eight (28) days after the expiry of the validity period stated in the Tender Data.
- C.2.23 Certificates**
- Include in the tender submission or provide the Employer with any certificates as stated in the Tender Data.
- C.3 The Employer's undertakings**
- C.3.1 Respond to requests from the Tenderer**
- C.3.1.1 Unless otherwise stated in the Tender Data, respond to a request for clarification received up to five (5) working days before the tender closing time stated in the Tender Data and notify all Tenderers who collected tender documents.
- C.3.1.2 Consider any request to make a material change in the capabilities or formation of the tendering entity (or both) or any other criteria which formed part of the qualifying requirements used to prequalify a Tenderer to submit a Tender Offer in terms of a previous procurement process and deny any such request if as a consequence:
- an individual firm, or a joint venture as a whole, or any individual member of the joint venture fails to meet any of the collective or individual qualifying requirements;

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- b) the new partners to a joint venture were not prequalified in the first instance, either as individual firms or as another joint venture; or
- c) in the opinion of the Employer, acceptance of the material change would compromise the outcome of the prequalification process.

C.3.2 Issue Addenda

If necessary, issue addenda that may amend or amplify the tender documents to each Tenderer during the period from the date that tender documents are available until three (3) working days before the tender closing time stated in the Tender Data. If, as a result a Tenderer applies for an extension to the closing time stated in the Tender Data, the Employer may grant such extension and, shall then notify all Tenderers who collected tender documents.

C.3.3 Return late Tender Offers

Return Tender Offers received after the closing time stated in the Tender Data, unopened, (unless it is necessary to open a tender submission to obtain a forwarding address), to the Tenderer concerned.

C.3.4 Opening of Tender submissions

C.3.4.1 Unless the two-envelope system is to be followed, open valid tender submissions in the presence of Tenderers' agents who choose to attend at the time and place stated in the Tender Data. Tender submissions for which acceptable reasons for withdrawal have been submitted will not be opened.

C.3.4.2 Announce at the meeting held immediately after the opening of tender submissions, at a venue indicated in the Tender Data, the name of each Tenderer whose Tender Offer is opened and, where applicable, the total of his prices, number of points claimed for its B-BBEE status level and time for completion for the main Tender Offer only.

C.3.4.3 Make available the record outlined in C.3.4.2 to all interested persons upon request.

C.3.5 Two-envelope system

C.3.5.1 Where stated in the Tender Data that a two-envelope system is to be followed, open only the technical proposal of valid tenders in the presence of Tenderers' agents who choose to attend at the time and place stated in the Tender Data and announce the name of each Tenderer whose technical proposal is opened.

C.3.5.2 Evaluate functionality of the technical proposals offered by Tenderers, then advise Tenderers who remain in contention for the award of the contract of the time and place when the financial proposals will be opened. Open only the financial proposals of Tenderers, who score in the functionality evaluation more than the minimum number of points for functionality stated in the Tender Data, and announce the score obtained for the technical proposals and the total price and any points claimed on B-BBEE status level. Return unopened financial proposals to Tenderers whose technical proposals failed to achieve the minimum number of points for functionality.

C.3.6 Non-disclosure

Not disclose to Tenderers, or to any other person not officially concerned with such processes, information relating to the evaluation and comparison of Tender Offers, the final evaluation price and recommendations for the award of a contract, until after the award of the contract to the successful Tenderer.

C.3.7 Grounds for rejection and disqualification

Determine whether there has been any effort by a Tenderer to influence the processing of Tender Offers and instantly disqualify a Tenderer (and his Tender Offer) if it is established that he engaged in corrupt or fraudulent practices.

C.3.8 Test for responsiveness

C.3.8.1 Determine, after opening and before detailed evaluation, whether each Tender Offer properly received:

- a) complies with the requirements of these Conditions of Tender,
- b) has been properly and fully completed and signed, and
- c) is responsive to the other requirements of the tender documents.

C.3.8.2 A responsive tender is one that conforms to all the terms, conditions, and specifications of the tender documents without material deviation or qualification. A material deviation or qualification is one which, in the Employer's opinion, would:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- a) detrimentally affect the scope, quality, or performance of the works, services or supply identified in the Scope of Work,
- b) significantly change the Employer's or the Tenderer's risks and responsibilities under the contract, or
- c) affect the competitive position of other Tenderers presenting responsive tenders, if it were to be rectified.

Reject a non-responsive Tender Offer, and not allow it to be subsequently made responsive by correction or withdrawal of the non-conforming deviation or reservation.

C.3.9 Arithmetical errors, omissions and discrepancies

C.3.9.1 Check responsive tenders for discrepancies between amounts in words and amounts in figures. Where there is a discrepancy between the amounts in figures and the amount in words, the amount in words shall govern.

C.3.9.2 Check the highest ranked tender or Tenderer with the highest number of tender evaluation points after the evaluation of Tender Offers in accordance with C.3.11 for:

- a) the gross misplacement of the decimal point in any unit rate;
- b) omissions made in completing the pricing schedule or Bills of Quantities; or
- c) arithmetic errors in:
 - (i) line item totals resulting from the product of a unit rate and a quantity in Bills of Quantities or schedules of prices; or
 - (ii) the summation of the prices.

C.3.9.3 Notify the Tenderer of all errors or omissions that are identified in the Tender Offer and either confirm the Tender Offer as tendered or accept the corrected total of prices.

C.3.9.4 Where the Tenderer elects to confirm the Tender Offer as tendered, correct the errors as follows:

- a) If Bills of Quantities or pricing schedules apply and there is an error in the line item total resulting from the product of the unit rate and the quantity, the line item total shall govern, and the rate shall be corrected. Where there is an obviously gross misplacement of the decimal point in the unit rate, the line item total as quoted shall govern, and the unit rate shall be corrected.
- b) Where there is an error in the total of the prices either as a result of other corrections required by this checking process or in the Tenderer's addition of prices, the total of the prices shall govern and the Tenderer will be asked to revise selected item prices (and their rates if Bills of Quantities apply) to achieve the tendered total of the prices.

C.3.10 Clarification of a Tender Offer

Obtain clarification from a Tenderer on any matter that could give rise to ambiguity in a contract arising from the Tender Offer.

C.3.11 Evaluation of Tender Offers

The Standard Conditions of Tender standardize the procurement processes, methods and procedures from the time that tenders are invited to the time that a contract is awarded. They are generic in nature and are made project specific through choices that are made in developing the Tender Data associated with a specific project.

Conditions of Tender are by definition the document that establishes a Tenderer's obligations in submitting a Tender and the Employer's undertakings in soliciting and evaluating Tender Offers. Such conditions establish the rules from the time a tender is advertised to the time that a contract is awarded and require Employers to conduct the process of offer and acceptance in terms of a set of standard procedures.

The CIDB Standard Conditions of Tender are based on a procurement system that satisfies the following system requirements:	
Requirement	Qualitative interpretation of goal
Fair	The process of offer and acceptance is conducted impartially without bias, providing simultaneous and timely access to participating parties to the same information.
Equitable	Terms and conditions for performing the work do not unfairly prejudice the interests of the parties.
Transparent	The only grounds for not awarding a contract to a Tenderer who satisfies all requirements are restrictions from doing business with the Employer, lack of capability or capacity, legal impediments and conflicts of interest.
Competitive	The system provides for appropriate levels of competition to ensure cost effective and best value outcomes.
Cost effective	Cost effective

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

The activities associated with evaluating Tender Offers are as follows:

- a) Open and record Tender Offers received
- b) Determine whether or not Tender Offers are complete
- c) Determine whether or not Tender Offers are responsive
- d) Evaluate Tender Offers
- e) Determine if there are any grounds for disqualification
- f) Determine acceptability of preferred Tenderer
- g) Prepare a Tender Evaluation Report
- h) Confirm the recommendation contained in the Tender Evaluation Report

C.3.11.1 General

The Employer must appoint an evaluation panel of not less than three persons conversant with the proposed scope of works to evaluate each responsive Tender Offer using the tender evaluation methods and associated evaluation criteria and weightings that are specified in the Tender Data.

C.3.12 Insurance provided by the Employer

*If requested by the proposed successful Tenderer, submit for the Tenderer's information the policies and/or certificates of insurance which the Conditions of Contract identified in the Contract Data, require the Employer to provide.

C.3.13 Acceptance of Tender Offer

Accept the Tender Offer; if in the opinion of the Employer, it does not present any risk and only if the Tenderer:

- a) is not under restrictions, or has principals who are under restrictions, preventing participating in the Employer's procurement;
- b) can, as necessary and in relation to the proposed contract, demonstrate that he or she possesses the professional and technical qualifications, professional and technical competence, financial resources, equipment and other physical facilities, managerial capability, reliability, experience and reputation, expertise and the personnel, to perform the contract;
- c) has the legal capacity to enter into the contract;
- d) is not; insolvent, in receivership, under Business Rescue as provided for in chapter 6 of the Companies Act No. 2008, bankrupt or being wound up, has his/her affairs administered by a court or a judicial officer, has suspended his/her business activities or is subject to legal proceedings in respect of any of the foregoing;
- e) complies with the legal requirements, if any, stated in the Tender Data; and
- f) is able, in the opinion of the Employer, to perform the contract free of conflicts of interest.

C.3.14 Prepare contract documents

C.3.14.1 If necessary, revise documents that shall form part of the contract and that were issued by the Employer as part of the tender documents to take account of:

- a) addenda issued during the tender period,
- b) inclusion of some of the returnable documents and
- c) other revisions agreed between the Employer and the successful Tenderer.

C.3.14.2 Complete the schedule of deviations attached to the form of offer and acceptance, if any.

C.3.15 Complete adjudicator's contract

Unless alternative arrangements have been agreed or otherwise provided for in the contract, arrange for both parties to complete formalities for appointing the selected adjudicator at the same time as the main contract is signed.

C.3.16 Registration of the award

An Employer must, within twenty-one (21) working days from the date on which a Contractor's offer to perform a construction works contract is accepted in writing by the Employer, register and publish the award on the CIDB Register of Projects.

C.3.17 Provide copies of the contracts

Provide to the successful Tenderer the number of copies stated in the Tender Data of the signed copy of the contract as soon as possible after completion and signing of the form of offer and acceptance.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C.3.18 Provide written reasons for actions taken

Provide upon request written reasons to Tenderers for any action that is taken in applying these conditions of tender, but withhold information which is not in the public interest to be divulged, which is considered to prejudice the legitimate commercial interests of Tenderers or might prejudice fair competition between Tenderers.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

PART T: THE TENDER

Part T2: Returnable Documents

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

T2.1 List of Returnable Documents

1. RETURNABLE SCHEDULES REQUIRED FOR TENDER EVALUATION PURPOSES

Tender document name	Number of pages issued	Returnable document
Resolution of Board of Directors (T2.2.01)	1 Page	☐ Yes ☐ No
Resolution of Board of Directors to enter into consortia or JV's (T2.2.02) (If Applicable)	2 Pages	☐ Yes ☐ No
Special Resolution of Consortia or JV's (T2.2.03) (If Applicable)	3 Pages	☐ Yes ☐ No
Schedule of Proposed Sub-contractors (T2.2.04)	1 Page	☐ Yes ☐ No
Capacity of Tenderer (T2.2.05)	3 Pages	☐ Yes ☐ No
SBD6.1 PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017 (T2.2.06)	4 Pages	☐ Yes ☐ No
Resources to be employed in terms of organization and staffing (T2.2.07)	2 Pages	☐ Yes ☐ No
Estimated Monthly Expenditure (T2.2.08)	1 Page	☐ Yes ☐ No
Non-Compulsory Site Inspection Meeting Certificate (T2.2.09)	1 Page	☐ Yes ☐ No
Compensation of Occupational Injuries and Disease Act (COIDA) (T2.2.18)	1 Page	☐ Yes ☐ No
Unemployment Insurance Fund (UIF) (T2.2.19)	1 Page	☐ Yes ☐ No

2. OTHER DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

Tender document name	Number of pages issued	Returnable document
Declaration of Interest (T2.2.10)	2 Pages	☐ Yes ☐ No
Medical Certificate for the confirmation of permanent disabled status (T2.2.11)	1 Page	☐ Yes ☐ No
Proof of Registration with Construction Industry Development Board (T2.2.12)	1 Page	☐ Yes ☐ No
Copy of CSD Registration Certificate (T2.2.13)	1 Page	☐ Yes ☐ No

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Tender document name	Number of pages issued	Returnable document
Financial References (T2.2.14)	1 Page	☒ Yes ☐ No
Proof of Liability Insurance (T2.2.20)	1 Page	☒ Yes ☐ No
SBD6.2 Declaration Certificate for Local Production and Content for Designated Sectors	6 Pages	☒ Yes ☐ No

3. RETURNABLE SCHEDULES THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name	Number of pages issued	Returnable document
Record of Addenda to Tender Documents (T2.2.15)	1 Page	☒ Yes ☐ No
Compulsory Enterprise Questionnaire (T2.2.16)	3 Pages	☒ Yes ☐ No

4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Tender document name	Number of pages issued	Returnable document
Applicable Form of Guarantee	3 Pages	☒ Yes ☐ No
Priced Bills of Quantities	138 Pages	☒ Yes ☐ No

C1.1 Offer portion of Form of Offer and Acceptance

C1.2 Contract Data - Part 2

C1.3 Form of Guarantee

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

RETURNABLE DOCUMENT CHECKLIST

This form has been created as an aid to ensure a Tenderer's compliance with the completion of the returnable schedules and subsequent placement in the correct **Technical** and **Financial** Envelopes.

A TECHNICAL ENVELOPE (1 COPY)

Reference No.	Document Description	Tick if completed
T2.2.01	Resolution of Board of Directors	
T2.2.02	Resolution of Board of Directors to enter into consortia or JV's (If Applicable)	
T2.2.03	Special Resolution of Consortia or Joint Ventures (If Applicable)	
T2.2.04	Schedule of Proposed Sub-contractors	
T2.2.05	Capacity of Tenderer	
T2.2.06	SBD6.1 Preference points claim form in terms of the Preferential Procurement Regulations 2017	
T2.2.07	Resources to be employed in terms of organization and staffing	
T2.2.09	Non-Compulsory Site Inspection Meeting Certificate	
T2.2.10	Declaration of Interest	
T2.2.11	Medical Certificate for the confirmation of permanent disabled status	
T2.2.12	Proof of Registration with Construction Industry Development Board	
T2.2.13	Original Valid Tax Clearance Certificate	
T2.2.14	Copy of CSD Registration Certificate	
T2.2.15	Financial References	
T2.2.16	Record of Addenda to Tender Documents	
T2.2.17	Compulsory Enterprise Questionnaire	
T2.2.18	Compensation of Occupational Injuries and Disease Act (COIDA)	
T2.2.19	Unemployment Insurance Fund (UIF)	
T2.2.20	Proof of Liability Insurance	
SBD8	Declaration of Bidder's Past Supply Chain Management Practices	
SBD9	Certificate of Independent Quotation Determination	

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

B FINANCIAL ENVELOPE (ORIGINAL DOCUMENT)

The entire original tender document must be submitted in this envelope including the forms as listed below:

Reference No.	Document Description	Tick if completed
C1.1	Form of Offer and Acceptance	
C1.2	Contract Data – Part 1	
C2.2	Priced Bills of Quantities	
T2.2.08	Estimated Monthly Expenditure	
SBD6.2	Local Content Declaration and Annexures	

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2 Returnable Documents/Schedules

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.01: RESOLUTION OF BOARD OF DIRECTORS

RESOLUTION of a meeting of the Board of *Directors / Members / Partners of:

.....

(legally correct full name and registration number, if applicable, of the Enterprise)

Held at (place)

On (date)

RESOLVED that:

1. The Enterprise submits a Bid / Tender to the South African National Biodiversity Institute in respect of the following project:

.....

(project description as per Bid / Tender Document)

Bid / Tender Number: *(Bid / Tender Number as per Bid / Tender Document)*

2. *Mr/Mrs/Ms:

in *his/her Capacity as: *(Position in the Enterprise)*

and who will sign as follows:

be, and is hereby, authorised to sign the Bid/Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid/Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid/Tender to the Enterprise mentioned above.

	Name	Capacity	Signature
1			
2			
3			
4			

Note:

1. *Delete which is not applicable
2. **NB.** This resolution must be signed by all the Directors / Members / Partners of the Bidding Enterprise.
3. Should the number of Directors / Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

ENTERPRISE STAMP

T2.2.02: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

RESOLUTION of a meeting of the Board of *Directors/Members/Partners of:

.....
.....
(Legally correct full name and registration number, if applicable, of the Enterprise)

Held at (place)

On (date)

RESOLVED that:

1. The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

.....
.....
(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)

to the South African National Biodiversity Institute in respect of the following project:

.....
.....
(Project description as per Bid/Tender Document)

Bid/Tender Number: (Bid/Tender Number as per Bid/Tender Document)

2. *Mr/Mrs/Ms:

in *his/her Capacity as: (Position in the Enterprise)

and who will sign as follows:

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all Other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

3. The Joint Venture formation/arrangement will be in the following proportions:

Name of Contractor	Proportion (%)

4. The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Employer in respect of the project described under item 1 above.

5. The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Employer in respect of the project under item 1 above:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Physical address:.....

.....

.....(code)

Postal address:

.....

.....(code)

Telephone number:(code)

Fax number:(code)

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			

Note:

1. * Delete which is not applicable.
2. **NB.** This resolution must be signed by all the Directors/ Members/Partners of the Bidding Enterprise.
3. Should the number of Directors/Members/Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

ENTERPRISE STAMP

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.03: SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES (If Applicable)

RESOLUTION of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly Bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

1.
.....
2.
.....
3.
.....
4.
.....
5.
.....
6.
.....
7.
.....
8.
.....

Held at (place)

On (date)

RESOLVED that:

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the South African National Biodiversity Institute in respect of the following project:

.....
.....
(Project description as per Bid /Tender Document)

Bid / Tender Number: *(Bid / Tender Number as per Bid / Tender Document)*

*Mr/Mrs/Ms:

in *his/her Capacity as: *(Position in the Enterprise)*

and who will sign as follows:

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

- B. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:
- C. The Enterprises to the Consortium/Joint Venture accept joint and several liabilities for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Employer in respect of the project described under item A above.
- D. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Employer 30 day's written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Employer for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.
- E. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Employer, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Employer referred to herein.
- F. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Employer in respect of the project under item A above:

Physical address:

.....

.....(code)

Postal address:

.....

.....(code)

Telephone number:(code)

Fax number:(code)

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

	Name	Capacity	Signature
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			

Note:

1. * Delete which is not applicable.
2. **NB.** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the Consortium Joint Venture submitting this Bid.
3. Should the number of Duly Authorised Representatives of the Legal Entities joining forces in this Bid exceed the space available above, additional names and signatures must be supplied on a separate page.
4. Resolutions, duly completed and signed, from the separate Enterprises who participate in this Consortium/Joint Venture must be attached to the Special Resolution.

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.04: SCHEDULE OF PROPOSED SUB-CONTRACTORS

	Name and address of proposed Sub-contractor	Nature and extent of work	Previous experience with Sub-contractor
1			
2			
3			
4			

Name of representative:	Signature	Capacity	Date

Name of organisation:	
------------------------------	--

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.05: CAPACITY OF TENDERER

1. **WORK CAPACITY:** *(The Tenderer is requested to furnish the following particulars, attach additional pages if more space is required. Failure to furnish the particulars may result in the Tender being disregarded)*

Skilled technicians employed		Unskilled employees employed	
Categories of technicians	Number	Categories of employees	Number

1.1 Provide full particulars of:

Machinery	Equipment	Workshops

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

2. PARTICULARS OF COMMITMENTS WHICH THE TENDERER HAS PREVIOUSLY COMPLETED AND PRESENTLY ENGAGED WITH:**2.1 Current projects:**

	Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commencement	Scheduled date of completion
1								
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

2.2 Previous projects:

	Project	Place (town)	Reference / Contact person	Contact Tel. No.	Contract amount	Contract period	Date of commencement	Scheduled date of completion	Actual date of completion
1									
2									
3									
4									
5									
6									
7									
8									

Name of Tenderer	Signature	Date

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

T2.2.06: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2017 SBD6.1

This preference form must form part of all Bids invited. It contains general information and serves as a claim form for preference points for Broad-Based Black Economic Empowerment (B-BBEE) Status Level of Contribution

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF B-BBEE, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT REGULATIONS, 2017

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all Bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included).

a) The value of this Bid is estimated **to not exceed** R50 000 000 (all applicable taxes included) and therefore the **80/20** preference point system shall be applicable;

1.2 Points for this Bid shall be awarded for:

- (a) Price; and
- (b) B-BBEE Status Level of Contributor.

1.3 The maximum points for this Bid are allocated as follows:

	POINTS
PRICE	80
B-BBEE STATUS LEVEL OF CONTRIBUTOR	20
Total points for Price and B-BBEE must not exceed	100

1.4 Failure on the part of a Bidder to submit proof of B-BBEE Status level of contributor together with the Bid, will be interpreted to mean that preference points for B-BBEE status level of contribution are not claimed.

1.5 The purchaser reserves the right to require of a Bidder, either before a Bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (b) **"B-BBEE status level of contributor"** means the B-BBEE status of an entity in terms of a code of good practice on black economic empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (c) **"Bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the provision of goods or services, through price quotations, advertised competitive Bidding processes or proposals;
- (d) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (e) **"EME"** means an Exempted Micro Enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (f) **"functionality"** means the ability of a Tenderer to provide goods or services in accordance with specifications as set out in the Tender documents.
- (g) **"prices"** includes all applicable taxes less all unconditional discounts;
- (h) **"proof of B-BBEE status level of contributor"** means:
 - 1) B-BBEE Status level certificate issued by an authorized body or person;
 - 2) A sworn affidavit as prescribed by the B-BBEE Codes of Good Practice;

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

3) Any other requirement prescribed in terms of the B-BBEE Act;

- (i) **"QSE"** means a qualifying small business enterprise in terms of a code of good practice on black economic empowerment issued in terms of section 9 (1) of the Broad-Based Black Economic Empowerment Act;
- (j) **"rand value"** means the total estimated value of a contract in Rand, calculated at the time of Bid invitation, and includes all applicable taxes;

3. POINTS AWARDED FOR PRICE

3.1 THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$P_s = 80 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right) \quad \text{or} \quad P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

Ps = Points scored for price of Bid under consideration
 Pt = Price of Bid under consideration
 Pmin = Price of lowest acceptable Bid

4. POINTS AWARDED FOR B-BBEE STATUS LEVEL OF CONTRIBUTOR

- 4.1 In terms of Regulation 6 (2) and 7 (2) of the Preferential Procurement Regulations, preference points must be awarded to a Bidder for attaining the B-BBEE status level of contribution in accordance with the table below:

B-BBEE Status Level of Contributor	Number of points (90/10 system)	Number of points (80/20 system)
1	10	20
2	9	18
3	6	14
4	5	12
5	4	8
6	3	6
7	2	4
8	1	2
Non-compliant contributor	0	0

5. BID DECLARATION

- 5.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

6. B-BBEE STATUS LEVEL OF CONTRIBUTOR CLAIMED IN TERMS OF PARAGRAPHS 1.4 AND 4.1

- 6.1 B-BBEE Status Level of Contributor: = (maximum of 10 or 20 points)

(Points claimed in respect of paragraph 7.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.)

7. SUB-CONTRACTING

- 7.1 Will any portion of the contract be sub-contracted?

(Tick applicable box)

YES	☐	NO	☐
-----	--------------------------	----	--------------------------

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelela National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

7.1.1 If yes, indicate:

- i) What percentage of the contract will be sub-contracted%
- ii) The name of the Sub-contractor.....
- iii) The B-BBEE status level of the Sub-contractor.....
- iv) Whether the Sub-contractor is an EME or QSE

(Tick applicable box)

YES		NO	
-----	--	----	--

- v) Specify, by ticking the appropriate box, if subcontracting with an enterprise in terms of Preferential Procurement Regulations, 2017:

Designated Group: An EME or QSE which is at least 51% owned by:	EME √	QSE √
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

8. **DECLARATION WITH REGARD TO COMPANY/FIRM**

8.1 Name of company/firm:

8.2 VAT registration number:

8.3 Company registration number:

8.4 TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture/Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Company
- ☐ (Pty) Limited

[TICK APPLICABLE BOX]

8.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

.....

8.6 COMPANY CLASSIFICATION

- ☐ Manufacturer
- ☐ Supplier
- ☐ Professional service provider
- ☐ Other service providers, e.g. transporter, etc.

[TICK APPLICABLE BOX]

8.7 Total number of years the company/firm has been in business:

8.8 I/we, the undersigned, who is/are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBEE status level of contributor indicated in paragraphs 1.4 and 6.1 of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 6.1, the Contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If the B-BBEE status level of contributor has been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the purchaser may, in addition to any other remedy it may have –
- (a) disqualify the person from the Bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) recommend that the Bidder or Contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
 - (e) forward the matter for criminal prosecution.

WITNESSES

1.
2.

.....
SIGNATURE(S) OF BIDDER(S)

DATE:

ADDRESS

.....

.....

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

DESIGNATION	NAME AND NATIONALITY OF: (i) NOMINEE (ii) ALTERNATE	SUMMARY OF QUALIFICATIONS, EXPERIENCE AND PRESENT OCCUPATION
<u>SITE OFFICE</u> Site Agent		
 Site Engineer/Technician		
 Construction supervisor (give designation)		
 Other key staff (give designation)		

42.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.08: Estimated Monthly Expenditure

The Tenderer shall state below the estimated value of work to be completed every month, based on his preliminary programme and his tendered unit rates.

The amounts for Contingencies and Contract Price Adjustment must not be included

MONTH	VALUE
1	R
2	R
3	R
4	R
5	R
6	R
7	R
8	R
9	R
10	R
11	R
12	R
	COMPLETION OF CONTRACT
TOTAL	R

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.09: Non-Compulsory Site Inspection Meeting Certificate

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

This is to certify that I, _____ representing
_____ in the company of
_____ visited the site on: _____

I have made myself familiar with all local conditions likely to influence the work and the cost thereof. I further certify that I am satisfied with the description of the work and explanations given at the site inspection meeting and that I understand perfectly the work to be done, as specified and implied, in the execution of this contract.

Name of Tenderer	Signature	Date

Name of Principal Agent	Signature	Date

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

T2.2.10: DECLARATION OF INTEREST

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

Any person, including persons in the employ of the South African National Biodiversity Institute ; or persons acting on behalf of the South African National Biodiversity Institute performing business as a sole proprietor or in partnership; or persons acting in the capacity of a trustee/s of a trust; or any legal entity, including legal entities and trusts, of which the members, directors, shareholders, trustees and/or beneficiaries are in the employ of the South African National Biodiversity Institute or act on behalf of the South African National Biodiversity Institute, may make an offer or offers in terms of this Tender invitation.

In view of the possible allegations of favouritism, should the resulting Tender, or part thereof, be awarded to persons employed by the South African National Biodiversity Institute; or to persons who act on behalf of the South African National Biodiversity; or to persons connected or related to them, the Bidder / Tenderer or the Bidder / Tenderer's duly authorized representative shall disclose herein any relationship and/or kinship, including blood relation, which he/she; his/her Employer; the Bidder / Tenderer's management; members; directors; partners; shareholders; trustees; and/or beneficiaries may have with any person or persons in the employ of the South African National Biodiversity Institute and/or with any person or persons acting on behalf of the South African National Biodiversity Institute and who may directly or indirectly be involved in, and/or may be in a position to influence the adjudication and/or evaluation and/or award of this Bid / Tender.

In order to give effect to the above, the following questionnaire shall be completed and submitted with the Tender. Failure to furnish the information requested in the questionnaire below may render the Tender submission not to be considered at all.

(In answering the questions below, indicate the applicable answer with a ✓ and cross the other out)

1. Is the Bidder/Tenderer and/or the duly authorized representative in the employ of the South African National Biodiversity Institute?

☐ YES ☐ NO

If yes, State the full particulars of such person/s, together with their current position held as an employee of the South African National Biodiversity Institute.

2. Is the Bidder/Tenderer and/or the duly authorized representative in the employ of the person/s or legal entity acting on behalf of the South African National Biodiversity Institute, and who may directly or indirectly be involved in, and/or may be in a position to influence, the adjudication and/or evaluation and/or award of this Tender?

☐ YES ☐ NO

If yes, State the full particulars of such person/s, together with their current position held as an employee of such person/s or legal entity acting on behalf of the South African National Biodiversity Institute.

3. Does the Bidder/Tenderer, the Bidder's/Tenderer's duly authorised representative, and/or any of the Bidder's / Tenderer's employees, management, partners, members, directors, shareholders, trustees and/or beneficiaries have any relationship (family, friend, business- or financial interest) with a person, or persons in the employ of the South African National Biodiversity Institute and/or in the employ of the person/s or legal entity acting on behalf of the South

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

African National Biodiversity Institute, and who may directly or indirectly be involved in, and/or may be in a position to influence, the adjudication and/or evaluation and/or award of this Tender?

☐ YES ☐ NO

If yes, state the full particulars of the persons between whom the relationship exists, the nature of the relationship and the current position/status of such employee/s of the South African National Biodiversity Institute and/or of the person/s and/or legal entity acting on behalf of the South African National Biodiversity Institute herein.

I, the undersigned, _____
(name of the person duly authorised to sign the Bid/Tender documents on behalf of the Bidder/Tenderer) hereby certify that the information, furnished above, is correct in all respects. I accept and understand that the South African National Biodiversity Institute, may act against me and the Bidder/Tenderer, jointly and severally, should this declaration prove to be false.

Duly signed at on this day of (month) of (year)

.....
Full name of signatory

.....
Name of Bidder/Tenderer

.....
Capacity of Signatory

.....
Signature

COMMISSIONER OF OATHS

T2.2.11: MEDICAL CERTIFICATE FOR THE CONFIRMATION OF PERMANENT DISABLED STATUS

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

I, (surname and name), Identity number, do hereby declare that I am a registered medical practitioner, with my practice number being , practicing at (Physical and postal addresses) declare that I have examined Mr/Mrs , identity number of and have found the said person to be permanently disabled or having a recurring disability.

"Disability" means, in respect of a person, a permanent impairment of a physical, intellectual, or sensory function, which results in restricted, or lack of, ability to perform an activity in the manner, or within the range, considered normal for a human being." – As per Preferential Procurement Policy Framework Act: No 5 of 2000 (PPPFA)

The nature of the disability is as follows:

.....
.....
.....

Thus signed at on this day of of.....

.....
Signature

.....
Date

OFFICIAL STAMP OF
MEDICAL PRACTITIONER

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.12: PROOF OF REGISTRATION WITH CONSTRUCTION INDUSTRY DEVELOPMENT BOARD

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

The Tenderer shall provide a printed copy of the Active Contractor's Listing off the CIDB website. (www.cidb.org.za). In the case of a joint venture, a printed copy of the Active Contractor's listing must be provided for each member of the joint venture.

Name of Contractor:

Contractor Grading Designation:

CIDB Contractor Registration Number:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.13: ORIGINAL VALID TAX CLEARANCE CERTIFICATE

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

A valid original Tax Clearance Certificate **must be included** for evaluation purposes.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.14: COPY OF CSD REGISTRATION CERTIFICATE

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

A copy of **Central Suppliers' Database (CSD) Registration Certificate** **must be included** for evaluation purposes.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.15: FINANCIAL REFERENCES

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

Notes to Tenderers:

1. The Tenderer(s) shall attach to this form a letter from the bank in which it is declared how he/they conducts his/their account(s). The contents of the bank's letter must state the credit rating that the bank, in addition to the information required below, accords to the Tenderer(s) for the business envisaged by this tender. Failure to provide the required letter with the tender submission may render the Tenderer's offer unresponsive in terms of Tender Condition C3.8.
2. The Tenderer's banking details as they appear below shall be completed.
3. In the event that the Tenderer is a joint venture enterprise, details of all the members of the joint venture shall be similarly provided and attached to this form.

Details of Company's Bank

	BANK DETAILS APPLICABLE TO TENDERER'S HEAD OFFICE
Name of Bank	
Branch Name	
Branch Code	
Street Address	
Postal Address	
Name of Manager	
Telephone Number	
Fax Number	
Account Number	

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.16: RECORD OF ADDENDA TO TENDER DOCUMENTS

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

I/We confirm that the following communications received from the South African National Biodiversity Institute before the submission of this Tender Offer, amending the Tender documents, have been taken into account in this Tender Offer:
(Attach additional pages if more space is required)

	Date	Title or Details
1		
2		
3		
4		
5		
6		
7		
8		
9		

Name of Tenderer	Signature	Date

I / We confirm that no communications were received from the South African National Biodiversity Institute before the submission of this Tender Offer, amending the Tender documents.

Name of Tenderer	Signature	Date

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

T2.2.17: COMPULSORY ENTERPRISE QUESTIONNAIRE

The following particulars must be furnished. In the case of a joint venture, separate enterprise questionnaires in respect of each partner must be completed and submitted.

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: PSIRA registration number, if any:

Section 4: Particulars of sole proprietors and partners in partnerships

Name*	Identity number*	Personal income tax number*

*Complete only if sole proprietor or partnership and attach separate page if more than 3 partners.

Section 5: Particulars of companies and close corporations

Company registration number:

Close corporation number:

Tax reference number:

Section 6: Record in the service of the state

Indicate by marking the relevant boxes with a cross, if any sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently, or has been within the last 12 months, in the service of any of the following:

- | | |
|--|--|
| ☐ a member of any municipal council | ☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No 1 of 1999) |
| ☐ a member of any provincial legislature | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the National Assembly or the National Council of Province | ☐ an employee of Parliament or a provincial legislature |
| ☐ a member of the board of directors of any municipal entity | |
| ☐ an official of any municipality or municipal entity | |

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

If any of the above boxes are marked, disclose the following:

Name of sole proprietor, partner, director, manager, principal shareholder or stakeholder	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*Insert separate page if necessary.

Section 7: Record of spouses, children and parents in the service of the state

Indicate by marking the relevant boxes with a cross, if any spouse, child or parent or a sole proprietor, partner in a partnership or director, manager, principal shareholder or stakeholder in a company or close corporation is currently, or has been within the last 12 months, in the service of any of the following:

- | | |
|--|--|
| ☐ a member of any municipal council | ☐ an employee of any provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No 1 of 1999) |
| ☐ a member of any provincial legislature | |
| ☐ a member of the National Assembly or the National Council of Province | ☐ a member of an accounting authority of any national or provincial public entity |
| ☐ a member of the board of directors of any municipal entity | ☐ an employee of Parliament or a provincial legislature |
| ☐ an official of any municipality or municipal entity | |

Name of spouse, child or parent	Name of institution, public office, board or organ of state and position held	Status of service (tick appropriate column)	
		Current	Within last 12 months

*Insert separate page if necessary.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

The undersigned, who warrants that he/she is duly authorised to do so on behalf of the enterprise:

- (i) authorises the Employer to obtain a tax clearance certificate from the South African Revenue Services that my/our tax matters are in order;
- (ii) confirms that neither the name of the enterprise or the name of any partner, manager, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears on the Register of Tender Defaulters established in terms of the Prevention and Combating of Corrupt Activities Act, 2004;
- (iii) confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise, has within the last five years been convicted of fraud or corruption;
- (iv) confirms that I/we are not associated, linked or involved with any other Tendering entities submitting Tender Offers and have no other relationship with any of the Tenderers or those responsible for compiling the Scope of Work that could cause or be interpreted as a conflict of interest; and
- (v) confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Signed: Date:

Name: Position:

Enterprise name:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.18: COMPENSATION OF OCCUPATIONAL INJURIES AND DISEASE ACT (COIDA)

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

Letter of Good Standing from the Office of the Compensation Commissioner as required by the Compensation for Occupational Injuries and Diseases Act (COIDA) **must be included** for evaluation purposes. The letter should be issued by the Department of Labour.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.19: UNEMPLOYMENT INSURANCE FUND (UIF)

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

UIF compliance should be demonstrated by submission of one of the following:

- A valid copy of the UIF Letter of Compliance issued by the Department of Labour, or
- Labour uFiling Employer Statement of Account indicating UIF payments or accruals not older than 12 months, or
- SARS eFiling Employer Statement of Account indicating UIF payments or accruals not older than 12 months, or
- Valid proof of exemption for UIF.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

T2.2.20: PROOF OF LIABILITY INSURANCE

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

The Tenderer **shall append** their **Proof of Liability Insurance** behind this page.

DECLARATION CERTIFICATE FOR LOCAL PRODUCTION AND CONTENT FOR DESIGNATED SECTORS SBD6.2

This Standard Bidding Document (SBD) must form part of all Bids invited. It contains general information and serves as a declaration form for local content (local production and local content are used interchangeably).

Before completing this declaration, Bidders must study the General Conditions, Definitions, Directives applicable in respect of Local Content as prescribed in the Preferential Procurement Regulations, 2017, the South African Bureau of Standards (SABS) approved technical specification number SATS 1286:2011 (Edition 1) and the Guidance on the Calculation of Local Content together with the Local Content Declaration Templates [Annex C (Local Content Declaration: Summary Schedule), D (Imported Content Declaration: Supporting Schedule to Annex C) and E (Local Content Declaration: Supporting Schedule to Annex C)].

1. General Conditions

- 1.1. Preferential Procurement Regulations, 2017 (Regulation 8) make provision for the promotion of local production and content.
- 1.2. Regulation 8.(2) prescribes that in the case of designated sectors, organs of state must advertise such Tenders with the specific Bidding condition that only locally produced or manufactured goods, with a stipulated minimum threshold for local production and content will be considered.
- 1.3. Where necessary, for Tenders referred to in paragraph 1.2 above, a two stage Bidding process may be followed, where the first stage involves a minimum threshold for local production and content and the second stage price and B-BEE.
- 1.4. A person awarded a contract in relation to a designated sector, may not sub-contract in such a manner that the local production and content of the overall value of the contract is reduced to below the stipulated minimum threshold.
- 1.5. The local content (LC) expressed as a percentage of the Bid price must be calculated in accordance with the SABS approved technical specification number SATS 1286: 2011 as follows:

$$LC = [1 - x / y] * 100$$

Where

x is the imported content in Rand

y is the Bid price in Rand excluding value added tax (VAT)

Prices referred to in the determination of x must be converted to Rand (ZAR) by using the exchange rate published by South African Reserve Bank (SARB) at 12:00 on the date of advertisement of the Bid as indicated in paragraph 4.1 below.

The SABS approved technical specification number SATS 1286:2011 is accessible on <http://www.thedti.gov.za/industrialdevelopment/ip.jsp> at no cost.

- 1.6. A Bid may be disqualified if this Declaration Certificate and the Annex C (Local Content Declaration: Summary Schedule) are not submitted as part of the Bid documentation;
- 2. The stipulated minimum threshold(s) for local production and content (refer to Annex A of SATS 1286:2011) for this Bid is/are as follows:**

Item No.	Description of services, works or goods	Unit (eg. m², m³, ton, etc.)	Quantity	Stipulated minimum threshold
19-26/35, 244-246/123	Steel Reinforcing	Ton	16.66	100%
27/35	Mesh Ref. 245	m ²	845	100%

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Item No.	Description of services, works or goods	Unit (eg. m², m³, ton, etc.)	Quantity	Stipulated minimum threshold
25/71	Steel Door Lining for half brick walls for door 813 x 2032mm high	No	5	100%
26/72	Steel Door Lining for one brick walls for door 813 x 2032mm high	No	2	100%
27/72	Steel Door Lining for 270mm hollow walls for door 813 x 2032mm high	No	2	100%
28/72	Post 100 x 100 x 6mm (16.74kg/m) Hollow Section	Ton	1.12	100%
30/72	Steel Security Gates, size 994 x 2150mm high	No	4	100%
119/92	25mm GMS Pipe	M	50	100%
48/107	100 x 50 x 3mm Hollow Section 5130mm long	No	2	100%
186-187/118	80mm GMS Pipe	M	3	100%
254/124	6m High 60mm diameter steel flagpole	No	1	100%

3. Does any portion of the goods or services offered have any imported content?
(Tick applicable box)

YES		NO	
-----	--	----	--

- 3.1 If yes, the rate(s) of exchange to be used in this Bid to calculate the local content as prescribed in paragraph 1.5 of the general conditions must be the rate(s) published by SARB for the specific currency at 12:00 on the date of advertisement of the Bid.

The relevant rates of exchange information is accessible on www.reservebank.co.za

Indicate the rate(s) of exchange against the appropriate currency in the table below (refer to Annex A of SATS 1286:2011):

Currency	Rates of exchange
US Dollar	
Pound Sterling	
Euro	
Yen	
Other	

NB: Bidders must submit proof of the SARB rate (s) of exchange used.

4. Where, after the award of a Bid, challenges are experienced in meeting the stipulated minimum threshold for local content the dti must be informed accordingly in order for the dti to verify and in consultation with the AO/AA provide directives in this regard.

LOCAL CONTENT DECLARATION
(REFER TO ANNEX B OF SATS 1286:2011)

LOCAL CONTENT DECLARATION BY CHIEF FINANCIAL OFFICER OR OTHER LEGALLY RESPONSIBLE PERSON NOMINATED IN WRITING BY THE CHIEF EXECUTIVE OR SENIOR MEMBER/PERSON WITH MANAGEMENT RESPONSIBILITY (CLOSE CORPORATION, PARTNERSHIP OR INDIVIDUAL)

IN RESPECT OF BID NO.

ISSUED BY: (Procurement Authority / Name of Institution): **SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE.**

NB

- 1 The obligation to complete, duly sign and submit this declaration cannot be transferred to an external authorized representative, auditor or any other third party acting on behalf of the Bidder.
- 2 Guidance on the Calculation of Local Content together with Local Content Declaration Templates (Annex C, D and E) is accessible on http://www.thdti.gov.za/industrial_development/ip.jsp. Bidders should first complete Declaration D. After completing Declaration D, Bidders should complete Declaration E and then consolidate the information on Declaration C. **Declaration C should be submitted with the Bid documentation at the closing date and time of the Bid in order to substantiate the declaration made in paragraph (c) below.** Declarations D and E should be kept by the Bidders for verification purposes for a period of at least 5 years. The successful Bidder is required to continuously update Declarations C, D and E with the actual values for the duration of the contract.

I, the undersigned, (full names),
do hereby declare, in my capacity as
of(name of Bidder entity), the following:

- (a) The facts contained herein are within my own personal knowledge.
- (b) I have satisfied myself that:
 - (i) the goods/services/works to be delivered in terms of the above-specified Bid comply with the minimum local content requirements as specified in the Bid, and as measured in terms of SATS 1286:2011; and
- (c) The local content percentage (%) indicated below has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E which has been consolidated in Declaration C:

Bid price, excluding VAT (y)	R
Imported content (x), as calculated in terms of SATS 1286:2011	R
Stipulated minimum threshold for local content (paragraph 3 above)	
Local content %, as calculated in terms of SATS 1286:2011	

If the Bid is for more than one product, the local content percentages for each product contained in Declaration C shall be used instead of the table above. The local content percentages for each product has been calculated using the formula given in clause 3 of SATS 1286:2011, the rates of exchange indicated in paragraph 4.1 above and the information contained in Declaration D and E.

- (d) I accept that the Procurement Authority / Institution has the right to request that the local content be verified in terms of the requirements of SATS 1286:2011.
- (e) I understand that the awarding of the Bid is dependent on the accuracy of the information furnished in this application. I also understand that the submission of incorrect data, or data that are not verifiable as described in SATS 1286:2011, may result in the Procurement Authority / Institution imposing any or all of the remedies as provided for in Regulation 14 of the Preferential Procurement Regulations, 2017 promulgated under the Preferential Policy Framework Act (PPFA), 2000 (Act No. 5 of 2000).

SIGNATURE: _____

DATE: _____

WITNESS No. 1 _____

DATE: _____

WITNESS No. 2 _____

DATE: _____

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

SATS 1286.2011

Annex C**Local Content Declaration - Summary Schedule**

(C1) Tender No.: SANBI: G379/2021
 (C2) Tender description: Kwelera National Botanical Garden: Phase 1
 (C3) Designated product(s): Steel Components
 (C4) Tender Authority: SANBI
 (C5) Tendering Entity name:
 (C6) Tender Exchange Rate:
 (C7) Specified local content % : 100%

Note: VAT to be excluded from all calculations

Pula EU GBP

Tender item no's	List of items	Calculation of local content						Tender summary			
		Tender price - each (excl VAT)	Exempted imported value	Tender value net of exempted imported content	Imported value	Local value	Local content % (per item)	Tender Qty	Total tender value	Total exempted imported content	Total Imported content
(C8)	(C9)	(C10)	(C11)	(C12)	(C13)	(C14)	(C15)	(C16)	(C17)	(C18)	(C19)
19-26/35, 244/246/123	Steel Reinforcing						100%	16,66 tonnes			
27/35	Mesh Ref. 245						100%	845 m2			
25/71	Steel Door Lining for half brick walls for door 813 x 2032mm high						100%	5 No.			
26/72	Steel Door Lining for one brick walls for door 813 x 2032mm high						100%	2 No.			
27/72	Steel Door Lining for 270mm hollow walls for door 813 x 2032mm high						100%	2 No.			
28/72	Steel Post 100 x 100 x 6mm (16.74kg/m) Hollow Section						100%	1,12 tonnes			
30/72	Steel Security Gates, size 994 x 2150mm high						100%	4 No.			
119/92	25mm Galvanised Mild Steel Pipe						100%	50 metres			
48/107	100 x 50 x 3mm Hollow Section Post 5130mm long						100%	2 No.			
186-187/118	80mm Galvanised Mild Steel Pipe						100%	3 metres			
254/124	6m High Flagpole formed of 60mm diameter steel pole						100%	1 No.			

(C20) Total tender value R 0

(C21) Total Exempt imported content R 0

(C22) Total Tender value net of exempt imported content R 0

(C23) Total Imported content

(C24) Total local content

(C25) Average local content % of tender

Signature of tenderer from Annex B

Date: _____

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwehla National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

SATS 1286.2011

Annex D

Imported Content Declaration - Supporting Schedule to Annex C

(D1) Tender No.	SANBI: G379/2021	Note: VAT to be excluded from all calculations
(D2) Tender description:	Kwehla National Botanical Garden: Phase 1	
(D3) Designated Products:	Soil Components	
(D4) Tender Authority:	SANBI	
(D5) Tendering Entity name:		
(D6) Tender Exchange Rate:	Pula	EU R 9,00 GBP R 12,00

A. Exempted imported content

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Exchange Rate	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Exempted imported value
(D7)	(D8)	(D9)	(D10)	(D11)	(D12)	(D13)	(D14)	(D15)	(D16)	(D17)	(D18)
(D19) Total exempt imported value										R 0	

This total must correspond with Annex C - C.21

B. Imported directly by the Tenderer

Calculation of imported content										Summary	
Tender item no's	Description of imported content	Unit of measure	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Tender Qty	Total imported value
(D20)	(D21)	(D22)	(D23)	(D24)	(D25)	(D26)	(D27)	(D28)	(D29)	(D30)	(D31)
(D32) Total imported value by tenderer										R 0	

C. Imported by a 3rd party and supplied to the Tenderer

Calculation of imported content										Summary	
Description of imported content	Unit of measure	Local supplier	Overseas Supplier	Foreign currency value as per Commercial Invoice	Tender Rate of Exchange	Local value of imports	Freight costs to port of entry	All locally incurred landing costs & duties	Total landed cost excl VAT	Quantity imported	Total imported value
(D33)	(D34)	(D35)	(D36)	(D37)	(D38)	(D39)	(D40)	(D41)	(D42)	(D43)	(D44)
(D45) Total imported value by 3rd party										R 0	

D. Other foreign currency payments

Calculation of foreign currency payments					Summary of payments	
Type of payment	Local supplier making the payment	Overseas beneficiary	Foreign currency value paid	Tender Rate of Exchange	Local value of payments	
(D46)	(D47)	(D48)	(D49)	(D50)	(D51)	

Signature of tenderer from Annex B

(D52) Total of foreign currency payments declared by tenderer and/or 3rd party

(D53) Total of imported content & foreign currency payments - (D32), (D45) & (D52) above

Date:

This total must correspond with Annex C - C.23

Any reference to words "Bid" or "Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

SATS 1286.2011

Annex E**Local Content Declaration - Supporting Schedule to Annex C**

(E1) Tender No.	SANBI: G379/2021
(E2) Tender description:	Kwelera National Botanical Garden: Phase 1
(E3) Designated products:	Steel Components
(E4) Tender Authority:	SANBI
(E5) Tendering Entity name:	

Note: VAT to be excluded from all calculations

Local Products (Goods, Services and Works)	Description of items purchased	Local suppliers	Value
	(E6)	(E7)	(E8)
	Steel Reinforcing		
	Mesh Ref. 245		
	Steel Door Lining for half brick walls for door 813 x 2032mm high		
	Steel Door Lining for one brick walls for door 813 x 2032mm high		
	Steel Door Lining for 270mm hollow walls for door 813 x 2032mm high		
	Steel Post 100 x 100 x 6mm (16.74kg/m) Hollow Section		
	Steel Security Gates, size 994 x 2150mm high		
	25mm Galvanised Mild Steel Pipe		
	100 x 50 x 3mm Hollow Section Post 5130mm long		
	80mm Galvanised Mild Steel Pipe		
	6m High Flagpole formed of 60mm diameter steel pole		
	(E9) Total local products (Goods, Services and Works)		

(E10) **Manpower costs** (Tenderer's manpower cost)

(E11) **Factory overheads** (Rental, depreciation & amortisation, utility costs, consumables etc.)

(E12) **Administration overheads and mark-up** (Marketing, insurance, financing, interest etc.)

(E13) Total local content

This total must correspond with Annex C - C24

Signature of tenderer from Annex B

Date: _____

DECLARATION OF BIDDER'S PAST SUPPLY CHAIN MANAGEMENT PRACTICES SBD8

- 1 This Standard Bidding Document must form part of all Bids invited.
- 2 It serves as a declaration to be used by institutions in ensuring that when goods and services are being procured, all reasonable steps are taken to combat the abuse of the supply chain management system.
- 3 The Bid of any Bidder may be disregarded if that Bidder, or any of its directors have-
 - a. abused the institution's supply chain management system;
 - b. committed fraud or any other improper conduct in relation to such system; or
 - c. failed to perform on any previous contract.
- 4 **In order to give effect to the above, the following questionnaire must be completed and submitted with the Bid.**

Item	Question	Yes	No
4.1	Is the Bidder or any of its directors listed on the National Treasury's database as companies or persons prohibited from doing business with the public sector? (Companies or persons who are listed on this database were informed in writing of this restriction by the National Treasury after the <i>audi alteram partem</i> rule was applied).	Yes ☐	No ☐
4.1.1	If so, furnish particulars:		
4.2	Is the Bidder or any of its directors listed on the Register for Tender Defaulters in terms of section 29 of the Prevention and Combating of Corrupt Activities Act (No 12 of 2004)? To access this Register enter the National Treasury's website, www.treasury.gov.za, click on the icon "Register for Tender Defaulters" or submit your written request for a hard copy of the Register to facsimile number (012) 3265445.	Yes ☐	No ☐
4.2.1	If so, furnish particulars:		
4.3	Was the Bidder or any of its directors convicted by a court of law (including a court outside of the Republic of South Africa) for fraud or corruption during the past five years?	Yes ☐	No ☐
4.3.1	If so, furnish particulars:		
4.4	Was any contract between the Bidder and any organ of state terminated during the past five years on account of failure to perform on or comply with the contract?	Yes ☐	No ☐
4.4.1	If so, furnish particulars:		

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

CERTIFICATION

I, THE UNDERSIGNED (FULL NAME)

CERTIFY THAT THE INFORMATION FURNISHED ON THIS DECLARATION FORM IS TRUE AND CORRECT.

I ACCEPT THAT, IN ADDITION TO CANCELLATION OF A CONTRACT, ACTION MAY BE TAKEN AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

CERTIFICATE OF INDEPENDENT BID DETERMINATION

SBD9

1. This Standard Bidding Document (SBD) must form part of all quotations¹ invited.
2. Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive Bidding (or Bid rigging).² Collusive Bidding is a *pe se* prohibition meaning that it cannot be justified under any grounds.
3. Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the Bid of any Bidder if that Bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the Bidding process or the execution of that contract.
4. This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when Bids are considered, reasonable steps are taken to prevent any form of Bid-rigging.
5. In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the Bid:

¹ Includes price quotations, advertised competitive Bids, limited Bids and proposals.

² Bid rigging (or collusive Bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a Bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying Bid:

SANBI: G379/2021: APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE

in response to the invitation for the quote made by:
SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI)
(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of: _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying Bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the Bidder to sign this Certificate, and to submit the accompanying Bid, on behalf of the Bidder;
4. Each person whose signature appears on the accompanying Bid has been authorized by the Bidder to determine the terms of, and to sign the Bid, on behalf of the Bidder;
5. For the purposes of this Certificate and the accompanying Bid, I understand that the word "competitor" shall include any individual or organization, other than the Bidder, whether or not affiliated with the Bidder, who:
 - (a) has been requested to submit a Bid in response to this Bid invitation;
 - (b) could potentially submit a Bid in response to this Bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the Bidder and/or is in the same line of business as the Bidder
6. The Bidder has arrived at the accompanying Bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive Bidding.
7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
 - (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a Bid;
 - (e) the submission of a Bid which does not meet the specifications and conditions of the Bid; or
 - (f) Bidding with the intention not to win the Bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this Bid invitation relates.
³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.
9. The terms of the accompanying Bid have not been, and will not be, disclosed by the Bidder, directly or indirectly, to any competitor, prior to the date and time of the official Bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to Bids and contracts, Bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No. 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

PART C: THE CONTRACT

Part C1: Agreement and Contract Data

PROJECT TITLE:	APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE
BID No.:	SANBI: G379/2021

C1.1 Form of Offer and Acceptance

The Employer, identified in the Acceptance signature block, has solicited offers to enter into a contract for:

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE

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. The Tenderer, identified in the offer signature block, has examined the draft contract as listed in the acceptance section and agreed to provide this offer.

By the representative of the Tenderer, deemed to be duly authorised, signing this part of this Form of Offer and Acceptance, the Tenderer offers to perform all of the obligations and liabilities of the **Contractor** 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 VAT IS:

(in words) Rand;

R..... (in figures)

THE OFFERED PRICES ARE AS STATED IN THE PRICING SCHEDULE

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 including the Schedule of Deviations (if any) to the Tenderer before the end of the period of validity stated in the Tender Data, or other period as agreed, whereupon the Tenderer becomes the party named as the **Contractor** in the Conditions of Contract identified in the Contract Data.

Signature(s)

Name(s)

Capacity

For the Tenderer:

.....
(Insert name and address of organisation)

Name & signature of witness Date

[Failure of a Tenderer to complete and sign this form will invalidate the Tender]

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

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 Contractor 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	Agreement and Contract Data <i>[which includes this Agreement]</i>
Part C2	Pricing Data
Part C3	Scope of Work
Part C4	Site Information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts C1 to C4 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 the said documents are valid unless contained in this Schedule, which must be duly signed by the authorised representative(s) of both parties.

The Tenderer shall within the time required to submit documentation in accordance with Clause 5.3 of the Contract Data (C1.2) after receiving a completed copy of this Agreement, including the Schedule of Deviations (if any), contact the Employer's agent (whose details are given in the Contract Data) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the Conditions of Contract identified in the Contract Data at, or just after, the date 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 working days of the date of such receipt notifies the Employer in writing of any reason why he cannot accept the contents of this Agreement, this Agreement shall constitute a binding Contract between the parties.

Signature(s)

Name(s)

Capacity

**For the
Employer:**

.....

.....

.....

(Insert name and address of organisation)

Name &
signature of
witness

Date

.....

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Schedule of Deviations

1	Subject
	Details
	
	
	
2	Subject
	Details
	
	
	
3	Subject
	Details
	
	
	
4	Subject
	Details
	
	
	
5	Subject
	Details
	
	
	

By the duly authorised 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 and amendments to the documents listed in the Tender Data and Addenda 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.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

FOR THE TENDERER:

Signature(s)

Name(s)

Capacity

.....
[Name and address of organisation]

Name and
signature of
witness

Date

FOR THE EMPLOYER:

Signature(s)

Name(s)

Capacity

.....
[Name and address of organisation]

Name and
signature of
witness

Date

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwehla National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

CONFIRMATION OF RECEIPT:

The Tenderer (now Contractor), identified in the offer part of this Agreement, hereby confirms receipt from the Employer, identified in the acceptance part of this Agreement, of one fully completed original copy of this Agreement, including the Schedule of Deviations (if any) today:

The [day]

of [month]

20 [year]

at [place]

For the Contractor:

.....
Signature

.....
Name

.....
Capacity

Signature and name of witness:

.....
Signature

.....
Name

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C1.2 Contract Data

The Conditions of Contract are the **JBCC Series 2000 Principal Building Agreement (July 2007 Edition 5.0 - Reprint 1)** published by the Joint Building Contract Committee. Copies of these documents may be obtained from the **Association of South African Quantity Surveyors** (011-315 4140), the **Master Builders Association** (011-205 9000), the **South African Association of Consulting Engineers** (011-463 2022) or the **South African Institute of Architects** (011-486 0684).

The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement.

The **ASAQS Preliminaries (November 2007 Edition)** published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in the Bills of Quantities.

The **Model Preambles for Trades (2008 Edition)** as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in the Bills of Quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

Contract Data: Employer to Contractor (EC)***Employer Addendum Code 2101-EC***

For information purposes only. To be signed on appointment.

Introduction

This addendum contains all variables referred to in the **Principal Building Agreement** that are the responsibility of the Contractor to provide the appropriate information that is necessary for the Contractor to complete his tender. The Addendum must be completed in full and included in the Tender documents. The Addendums "Contract Data – EC", "Contract Data – CE", "Contract Data – ES" and "Contract Data – SE" form part of the contract between the parties.

Definitions

The definitions used in this document and the interpretation thereof are as listed in the Principal Building Agreement. The work or phrase of a definition is in bold text and shall bear the meaning assigned to it in the Principal Building Agreement. Where such word or phrase is not highlighted it shall bear the meaning consistent with the context of its use. The listed defined word or phrase does not qualify as a definition where information required to be stated in the Contract Data has not been provided.

Provision of Contract Data

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be clearly struck out. Where insufficient space is provided the additional information should be annexed hereto and cross referenced to the applicable clause of the Contract Data.

Reference Clauses

Where relevant the Principal Building Agreement clause applicable to the required information is printed in italics under the Contract Data clause number ie. [27.4.2]

TABLE OF CONTENTS

Section No.	Description
1.0	CONTRACTING AND OTHER PARTIES
2.0	CONTRACT AND SITE INFORMATION
3.0	INSURANCES AND SECURITIES
4.0	PRACTICAL COMPLETION DATES AND PENALTIES
5.0	DOCUMENTS AND GENERAL
6.0	STATE PROVISIONS AND SUBSTITUTIONS
7.0	CHANGES MADE TO THE STANDARD JBCC DOCUMENT
8.0	DECLARATION BY THE PRINCIPAL AGENT

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

CONTRACT DATA – EMPLOYER

1.0 CONTRACTING AND OTHER PARTIES

1.1 [1.2]	Employer:	South African National Biodiversity Institute		
	Postal Address:	Private Bag X101, Silverton, Gauteng	Code:	0184
	Physical Address:	Pretoria National Botanical Garden 2 Cussonia Avenue, Brummeria, Gauteng	Code:	0184
	Tel No.:	012 843 5000	Fax No.:	012 843 5205
	eMail:	c.willis@sanbi.org.za		
1.2 [5.1]	Principal Agent:	Element Consulting Engineers	Person:	Mr G. Hollis
	Postal Address:	PO Box 19429 Tecoma	Code:	5214
	Tel No.:	043 726 0074	Fax No.:	043 726 0600
	eMail:	ghollis@eceng.co.za		
1.2 [5.2]	Agent (1):	Zutari	Person:	Mr Amjad Hendricks
	Agent's Service:	Programme Manager		
	Postal Address:	1 Century City Drive Century City	Code:	7441
	Tel No.:	021 526 9416	Fax No.:	021 526 9400
	eMail:	Amjad.Hendricks@zutari.com		
1.3 [5.2]	Agent (2):	Impendulo Design Architects	Person:	Mr J. Schoeman
	Agent's Service:	Architects		
	Postal Address:	Postnet X 9063 East London	Code:	5200
	Tel No.:	043 726 0060	Fax No.:	043 726 0063
1.4 [5.2]	eMail:	johann@impendulo.co.za		
	Agent (3):	Mokate Monk & du Plessis	Person:	Mr K. Rennie
	Agent's Service:	Quantity Surveyors		
	Postal Address:	PO Box 8370 Nahoon	Code:	5210
	Tel No.:	043 721 0667	Fax No.:	N/A
	eMail:	keith@mmdp.co.za		

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

1.5
[5.2] **Agent (4):** _____ **Person:** _____
Agent's Service: _____
Postal Address: _____ **Code:** _____
Tel No.: _____ **Fax No.:** _____
eMail: _____

1.6
[5.2] **Agent (5):** _____ **Person:** _____
Agent's Service: _____
Postal Address: _____ **Code:** _____
Tel No.: _____ **Fax No.:** _____
eMail: _____

1.7
[5.2] **Agent (6):** _____ **Person:** _____
Agent's Service: _____
Postal Address: _____ **Code:** _____
Tel No.: _____ **Fax No.:** _____
eMail: _____

1.8
[5.2] **Agent (7):** _____ **Person:** _____
Agent's Service: _____
Postal Address: _____ **Code:** _____
Tel No.: _____ **Fax No.:** _____
eMail: _____

1.9
[5.5] **Interest of Principal Agent or other Agent in the project.** (Yes / No) **No**
 Details where "yes": **N/A**

1.10 The **Principal Agent** named in 1.2 above is responsible for the preparation of the **Contract Data** schedule and must be contacted should the **Contractor** be uncertain of the information provided or to be provided. Failure to complete the **Contract Data** schedule in full may result in the Tender being disqualified.

2.0 CONTRACT AND SITE INFORMATION

2.1
[1.7] The **law** applicable to this **agreement:** (Country / State) **RSA**

2.2
[1.1] **Works** identification: **THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE**

2.3
[1.1] Site description: **Farm No. 1505, Road DR02731, Kwelera, East London**

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

2.4 [15.2.1]	Possession of the site is to be given on:	(Date)	Within 5 (five) working days after receipt of documentary evidence that: • Insurances have been effected [12.2]; • Security has been provided to the Employer [14.1]; • Contractor's Lien has been signed; • Safety Plan has been approved by the Employer		
2.5 [15.3]	Period for the commencement of the works after the Contractor takes possession of the site :	(Working days)	5 (Five)		
2.6 [15.4], [28.0]	Completion of the works in sections is required.	(Yes / No)	No	(No. of sections)	N/A
2.7 [3.3], [31.16.2]	Waiver of the Contractor's lien or right of continuing possession is required.	(Yes / No)	Yes		
2.8 [16.1]	Defined restrictions to the site area. Where "yes" the specific requirements are described below or detailed in the contract documents .	(Yes / No)	No		
2.9 [16.4]	Geotechnical investigation of the site has been undertaken. Where "yes" the results are included in the contract documents .	(Yes / No)	Yes		
2.10 [16.6]	Existing premises will be occupied. Where "yes" the specific requirements are described below or detailed in the contract documents .	(Yes / No)	No		
2.11 [16.7]	Provision of temporary services is required. Where "yes" the specific requirements are described below or detailed in the contract documents .	(Yes / No)	No		
2.11.1	Water	Option A Contractor – his cost Option B Employer – free of charge Option C Contractor – metered (Contractor cost)	(A, B or C)	A	
2.11.2	Electricity	Option A Contractor – his cost Option B Employer – free of charge Option C Contractor – metered (Contractor cost)	(A, B or C)	A	
2.11.3	Telecom	Option A Contractor – his cost Option B Employer – free of charge Option C Contractor – metered (Contractor cost)	(A, B or C)	A	
2.11.4	Ablutions	Option A Contractor – his cost Option B Employer – free of charge Option C Contractor – metered (Contractor cost)	(A, B or C)	A	
2.12 [16.8]	Protection of existing trees and shrubs is required. Where "yes" the specific requirements are described below or detailed in the contract documents .	(Yes / No)	Yes		
3.0 INSURANCE AND SECURITIES					
3.1 [10.1.1], [12.6]	Contract works insurance to be effected by:	(Employer / Contractor)	Contractor		

Any reference to words "Bid" or "Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

	For the sum of:	(Amount)	Contract Sum Plus 20%
	With a deductible of:	(Amount)	R20 000
3.2 [10.1.2], [11.1-3], [12.6]	Supplementary/Special insurance to be effected by:	(Employer / Contractor)	N/A
	For the sum of:	(Amount)	N/A
	With a deductible of:	(Amount)	N/A
3.3 [10.1.3], [12.6]	Public liability insurance to be effected by:	(Employer / Contractor)	Contractor
	For the sum of:	(Amount)	R5 000 000 per claim
	With a deductible of:	(Amount)	R20 000
3.4 [11.1.1]	Support insurance to be effected by:	(Employer / Contractor)	N/A
	For the sum of:	(Amount)	N/A
	With a deductible of:	(Amount)	N/A
3.5 [11.1.2-3], [12.1]	Special insurance to be effected by:	(Employer / Contractor)	N/A
Type:	N/A		
	For the sum of:	(Amount)	N/A
	With a deductible of:	(Amount)	N/A

4.0 PRACTICAL COMPLETION DATES AND PENALTIES

		Date	Penalty Amount
4.1 [24.3.1], [30.1-36]	For the works as a whole: The Date for Practical Completion and the Penalty per calendar day is:	12 Calendar Months after date of Site Handover, including builders' holiday period(s)	Penalty per Calendar Day: R 0.0275 per R100 of Contract Sum (excluding VAT)

Or

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- 4.2
[24.3.1],
[28.1]
- For the **works** in **sections**:
The **Date** for **Practical Completion** and the **Penalty** per **calendar day** is:

	Date	Penalty Amount
Section 1	N/A	N/A
Section 2	N/A	N/A

5.0 DOCUMENTS AND GENERAL

- 5.1
[3.7] Construction document copies to be supplied to the **Contractor** free of charge. (No. of copies) **3**
- 5.2
[3.9] The **priced document** may be used as a specification of **materials and goods** and work methods. (Yes / No) **No**
- 5.3
[3.10] The **Contractor** shall provide a schedule of rates. (Yes / No) **No** (Addendum No.) **Refer to Bills of Quantities**
- 5.4
[3.11] Changes made to **JBCC** standard documents. (Yes / No) **Yes** (Addendum No.) **Refer to Point 6 below**
- 5.5
[15.1.1] On acceptance of the Tender, the **priced document** is to be submitted within the stated **working days**. (No. of days) **Priced document to be submitted with Tender**
- 5.6
[22.2] Work to be undertaken by **Direct Contractors**. (Yes / No) **No** (Addendum No.) **N/A**
- 5.7
[24.9] On achievement of Practical Completion, the **Contractor** is to hand over all certificates and manuals, etc. related to the works.
- 5.8
[31.1] Interim **payment certificates** to be issued by: (Date of Month) **25th**
- 5.8
[4.1] The following items of works shall be supplied by the Contractor:
- | | | | |
|-----|--|-----|--|
| (1) | Roof sheeting certificate of compliance | (2) | Certificate of asbestos removal/disposal (If applicable) |
| (3) | Roof structure certificate of compliance (If applicable) | (4) | |
| (5) | | (6) | |

EPWP Requirements:**Payment for the labour-intensive component of the works**

Payment for works identified in the Scope of Work as being labour-intensive shall only be made in accordance with the provisions of the Contract if the works are constructed strictly in accordance with the provisions of the Scope of Work.

Any non-payment for such works shall not relieve the Contractor in any way from his obligations either in contract or in delict.

Linkage of payment for labour-intensive component of works to submission of project data

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelela National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

The Contractor's payment invoices shall be accompanied by labour information for the corresponding period in a format specified by the Employer. If the Contractor chooses to delay submitting payment invoices, labour returns shall still be submitted as per frequency and timeframe stipulated by the Employer. The Contractor's invoices shall not be paid until all pending labour information has been submitted.

Applicable labour laws

The current Ministerial Determination (also downloadable at www.epwp.gov.za), Expanded Public Works Programmes, issued in terms of the Basic Conditions of Employment Act of 1997 by the Minister of Labour in Government Notice, shall apply to works described in the scope of work as being labour-intensive and which are undertaken by unskilled or semi-skilled workers.

6.0 STATE PROVISIONS AND SUBSTITUTIONS

6.1 *Replace the following definitions with:*

"CONSTRUCTION PERIOD" means the period commencing on the date of acceptance of the Bid as stated in [15.2.1] And ending on the date of **practical completion**

"INTEREST" means 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).

6.2 *Replace the last sentence with the following:*
[3.6]

The original signed set of contract documents shall be held by the **Employer**.

6.3 *Replace the clause with the following:*
[5.1]

In terms of the clauses listed hereunder the **Employer** has retained its authority and has not given a mandate to the **Principal Agent**. The **Employer** shall sign all documents in relation to the following clauses:

20.1, 20.7, 26.2.1, 26.3.1, 29.1, 29.2, 29.4.1, 29.4.3, 29.7, 29.8, 32.1, 32.6.2, 32.15, 34.3

Copies of the signed documents shall be provided to the **Principal Agent**.

6.4 *Replace the clause with the following:*
[8.4]

The **Contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **Employer** against any such damage. The **Contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **Contractor** may deem necessary.

6.6 *Add the following clause:*
[9.3]

The **Employer's** rights to claim damages for the **Contractor's** omissions and actions will not be affected.

6.7 *Replace the clause with the following:*
[10.1]

The **Contractor** shall effect contract works insurances and, where available, supplementary insurance in respect of civil commotion, riot and strike shall be effected for the **works** for the Contractor's all risk and, in addition, covering the **Contractor's** Sub-contractors. Such insured amounts shall include the full value of materials and goods supplied by the **Employer** to the Contractor. Supplementary insurance shall not be effected, where the **Employer** makes such an election as stated in [11.1.2 – 3]

6.8 *Add the following clause:*
[11.2]

The **Contractor** shall effect public liability insurance for not less than the amount and the deductible as stated in [10.1.3]. In addition, the **Contractor** shall affect any relevant workmen's compensation or similar insurances as are required by **law**. The **Contractor** shall ensure that his Sub-contractors effect their own similar insurances.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- 6.9
[11.3] *Add the following clause:*
- Should the **Employer** decide that the execution of the works could cause the weakening or interference with the support of the land adjacent to the **site**, the **Employer** shall state in [11.1.1] That the **Contractor** shall effect support insurance
- 6.12
[12.3] *Replace the clause with the following:*
- Where the **Contractor** fails to effect any of the required insurances or to keep them in force, the **Employer** may cancel this agreement in terms of clause [36.0]
- 6.13
[12.4] *Replace the clause with the following:*
- Before effecting support insurance in terms of [11.2] the **Contractor** shall engage an engineer or technologist to design and inspect the provision of the necessary support.
- 6.14
[14.1] *Replace the clause with the following:*
- Security:
- The securities to be provided by the **Contractor** are:
- (1) Variable construction guarantee
 - (2) Fixed construction guarantee
 - (3) Advance payment guarantee
- 6.14
[15.2.1] *Replace the clause with the following:*
- Give the **Contractor** possession of site within ten (10) **working days** of the commencement of the **construction period** provided that the **Contractor** has complied with the terms of [15.1.1] and [15.1.2]
- 6.15
[25.3] *Replace the clause with the following:*
- Should the **Principal Agent** not issue a **works completion** list, in terms of [25.1] or [25.2.2], within seven (7) **calendar days** from the end of the inspection period, the **Contractor** shall notify the **Employer** and **Principal Agent**. Should the **Principal Agent** not issue such **works completion** list within seven (7) **calendar days** of such notice, the **Employer** may within seven (7) **calendar days** issue to the **Contractor** a **works completion** list. Should the **Employer**:
- 6.16
[25.3.1] *Replace the clause with the following:*
- Not issue such **works completion** list within seven (7) **calendar days**, then the **certificate of works completion** shall be deemed to have been issued on the date of expiry of the initial notice period and **works completion** shall be deemed to have been achieved on such date.
- 6.17
[25.3.2] *Replace the clause with the following:*
- Issue a **works completion** list and the work on the **works completion** list not completed or where further **defects** have become apparent, the **Employer** shall forthwith identify such items on the updated **works completion** list and notify the **Contractor**. The **Contractor** shall repeat the procedure in terms of [25.2.2] until such items have been completed to the satisfaction of the **Employer**.
- 6.18
[26.1] *Replace the clause with the following:*
- The defects liability period for the works shall commence on the date of works completion and end after three hundred and sixty-five (365) **calendar days** for items stated in the **Bills of Quantities**.
- 6.19
[26.4] *Replace the clause with the following:*
- Should the **Principal Agent** not issue a **defects** list in terms of [26.2.2 or 26.3.2], within seven (7) **calendar days** from the end of the **defects** liability period, the **Contractor** shall notify the **Employer** and **Principal Agent**. Should the **Principal Agent** not issue such **defects** list within seven (7) **calendar days** of receipt of such notice, the **Employer** may within seven (7) **calendar days** issue to the **Contractor** a **defects** list. Should the **Employer**:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- 6.20
[26.4.1] *Replace the clause with the following:*
- Not issue such **defects** list within seven (7) **calendar days**, then the **certificate of final completion** shall be deemed to have been issued on the date of expiry of the initial notice period and **final completion** shall be deemed to have been achieved on such date.
- 6.21
[26.4.2] *Replace the clause with the following:*
- Issue a **defects** list and the work on the **defects** list has not been completed or where further **defects** have become apparent, the **Employer** shall forthwith identify such items on the updated **defects** list and notify the **Contractor**. The **Contractor** shall repeat the procedure in terms of [26.3.2] until such items have been completed to the satisfaction of the **Employer**
- 6.22
[26.6] *Replace the clause with the following:*
- A **certificate of final completion** issued in terms of [26.0] shall be *prima facie* evidence as to the sufficiency of the **works** and that the Contractor's obligations in terms of [2.0] and [15.0] have been fulfilled other than for **latent defects**.
- 6.23
[27.1] *Replace the clause with the following:*
- The **latent defects** liability period shall commence at the start of the **construction period** and end ten (10) years from the date of **final completion** where **final completion** in terms of [26.0] is achieved.
- 6.24
[27.2] *Replace the clause with the following:*
- Where cancellation of this **agreement** occurs before the achievement of **final completion** the **latent defects** liability period shall end ten (10) years from the date of cancellation.
- 6.27
[31.4.2] *Replace the clause with the following:*
- A reasonable estimate of the value of **materials and goods** in terms of [31.6] unless the **Employer** elects not to pay for such.
- 6.29
[31.9] *Replace the clause with the following:*
- The **Employer** shall pay the **Contractor** the amount certified within thirty (30) **calendar days** of the date for issue of the **payment certificate**. Payment shall be subject to the **Contractor** giving the **Employer** a **tax** invoice for the amount due.
- 6.30
[31.11.2] *Replace the last sentence with the following:*
- The **Principal Agent** shall calculate such default interest at the 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).
- 6.31
[31.12] *Replace the clause with the following:*
- Where a **payment certificate** reflects an amount in favour of the **Employer**, the **Contractor** shall pay the amount certified within twenty-one (21) **calendar days** of the date of issue of the **payment certificate**. Where such an amount has not been paid, the **Contractor** shall be liable for default interest and the **Principal Agent** shall include such an amount in the **recovery statement** in terms of [33.0]. Payment shall be subject to the **Employer** giving the **Contractor** a **tax** invoice for the amount due. The **Principal Agent** shall calculate such interest at the 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).
- 6.32
[34.1] *Replace the clause with the following:*
- The **Contractor** shall cooperate with and assist the **Principal Agent** in the preparation of the **final account** by timeously providing all relevant documents on request. The **Principal Agent** shall issue the final account to the **Contractor** within one hundred and twenty (120) **working days**.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- 6.33
[34.2] *Add the following clause:*
- The **Principal Agent** shall allow the **Employer** twenty (20) **working days**, within the period provided in [34.1] to accept the **final account** before presentation to the **Contractor** in terms of [34.3]
- 6.34
[34.5] *Add the following:*
- The final payment certificate shall be issued by the **Employer**.
- 6.35
[34.9] *Replace the clause with the following:*
- The **Employer** shall concurrently with the issue of the final **payment certificate** issue a statement to the **Contractor** showing the total amount of **tax** certified.
- 6.36
[34.10] *The **Employer** shall pay to the **Contractor** the amount certified for payment in the final **payment certificate** within thirty (30) **calendar days** of the date of issue of the final **payment certificate** subject to the **Contractor** giving the **Employer** a **tax** invoice for the amount due.*
- 6.37
[34.12] *Replace the last sentence with:*
- Such interest shall be calculated at the 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).
- 6.38
[36.1] *Replace the clause with the following:*
- The **Employer** may, without prejudice of any other rights available to him, cancel this **agreement** where the **Contractor**:
- 6.39
[36.2] *Replace the clause with the following:*
- Where the **Contractor** is in default, the **Employer** may notify the **Contractor**, either directly or through the **Principal Agent**, of his default and of the **Employer's** intention to cancel this **agreement** in terms of [36.1], should the default not be remedied.
- 6.40
[37.2] *Replace the clause with the following:*
- Where the **Employer** considers cancelling this **agreement** in terms of [37.1] the **Employer** shall notify the **Contractor** of the **Employer's** intention to cancel this **agreement**.
- 6.41
[39.2] *Add the following clause:*
- The **Employer** shall be entitled at any time to unilaterally terminate or cancel this **agreement** or any part thereof. Save for the following the **Contractor** shall not be entitled to claim any other amounts whatsoever in respect of such termination or cancellation of this **agreement**. The **Employer** shall be obliged to pay the **Contractor** as damages and/or loss of profit the lesser of:
- 6.42
[39.2.1] *Add the following clause:*
- An amount not exceeding Ten per cent (10%) of the **contract sum**.
- 6.43
[39.2.2] *Add the following clause:*
- Ten per cent (10%) of the value of incomplete work.
- 6.43
[39.2.3] *Add the following clause:*
- The **Contractor's** actual damage or loss as determined by the **Employer** after receipt of evidence substantiating any such damage or loss.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

6.44 *Replace the clause with the following:*
[40.2.2]

Litigation where the **Employer** so elects. Institution of the action shall be commenced, and process served within one (1) year from the date of existence of the dispute, failing which the dispute shall lapse.

7.0 CHANGES MADE TO THE STANDARD JBCC DOCUMENT

Changes made to the standard JBCC document are listed in section 6 above.

8.0 DECLARATION BY THE PRINCIPAL AGENT

I, the Principal Agent named in 1.2 above, declare that the information provided above is complete and accurate at the time of calling for Tenders. Where necessary, should any of the above information need to be varied, Tenderers will be forthwith informed thereof in writing.

.....
Principal Agent

.....
Date

Contract Data: Contractor to Employer (CE)

Contractor Addendum Code 2101-CE

Introduction

This addendum contains all variables referred to in the Principal Building Agreement that are the responsibility of the Contractor to provide the appropriate information that is necessary for the Contractor to complete his tender. The Addendum must be completed in full and included in the tender documents. The Addendums "Contract Data – EC", "Contract Data – CE", "Contract Data – ES" and "Contract Data – SE" form part of the contract between the parties.

Definitions

The definitions used in this document and the interpretation thereof are as listed in the Principal Building Agreement. The work or phrase of a definition is in **bold text** and shall bear the meaning assigned to it in the Principal Building Agreement. Where such word or phrase is not highlighted it shall bear the meaning consistent with the context of its use. The listed defined word or phrase does not qualify as a definition where information required to be stated in the **Contract Data** has not been provided.

Provision of Contract Data

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be clearly struck out. Where insufficient space is provided the additional information should be annexed hereto and cross referenced to the applicable clause of the **Contract Data**.

Reference Clauses

Where relevant the Principal Building Agreement clause applicable to the required information is printed in italics under the Contract Data clause number i.e. [27.4.2]

TABLE OF CONTENTS

Section No.	Description
1.0	CONTRACTING PARTY
2.0	SECURITIES
3.0	PAYMENT AND ADJUSTMENT OF PRELIMINARIES
4.0	EMPLOYER CHANGES TO JBCC STANDARD DOCUMENTS
5.0	THE TENDER

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

1.0 CONTRACTING PARTY

1.1

[1.2]

Contractor:**Postal Address:****Code:****Physical Address:****Code:****eMail:****Tel No.:****Fax No.:****VAT No.:****2.0 SECURITIES**

2.1 The security provisions selected are:

2.1.1

[14.3]

Variable Construction Guarantee

(Yes / No)

2.1.2

[14.4]

Fixed Construction Guarantee and Payment Reduction

(Yes / No)

2.1.3

[14.5]

Advanced Payment is required. Where "Yes"

Amount

N/A

2.1.4

[14.5]

An Advance Payment Guarantee to be provided

(Yes / No)

No**3.0 PAYMENT AND ADJUSTMENT OF PRELIMINARIES****3.1 Payment of Preliminaries**

The payment of Preliminaries shall be according to the option selected by the **Contractor**. The amount included in each monthly **payment certificate** in respect of Preliminaries as stated in the **Contract Data** shall be:

3.1.1 Option A

Assessed by the **Principal Agent** as an amount prorated to the value of the work duly executed in the same ratio as the Preliminaries bears to the **contract sum** excluding:

- The amount for Preliminaries
- Any contingency sum
- Any amount in respect of **CPAP**

All inclusive of **tax**.

3.1.2 Option B

Calculated from the priced items in the **Bills of Quantities**. The **Contractor** and the **Principal Agent** shall agree on a division of the priced Preliminaries items into:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- An initial or establishment charge
- A monthly charge
- A final or dis-establishment charge

All inclusive of **tax**.

In arriving at such a division cognizance shall be taken of such factors as:

- Premiums for annually renewable insurance policies.
- Plant, scaffolding and the like remaining the property of the **Contractor** or the hiring company and the capital costs thereof not treated as part of the initial charge.

Where the initial **construction period** is extended the monthly charge shall be recalculated on the same basis as was originally applied but taking into account the revised **construction period** and the amounts already paid to the **Contractor**.

Should the **Contractor** and the **Principal Agent** be unable to agree such division then the **Principal Agent** shall make a division of the amount of Preliminaries to be incorporated in the valuations of each monthly **payment certificate**.

3.2 **Adjustment of Preliminaries**

The amount of items of Preliminaries shall be adjusted to take account of the theoretical financial effect which changes in time and/or value have on Preliminaries. Such an adjustment shall be based on the particulars provided by the **Contractor** for this purpose in terms of Option A or B and shall preclude any further adjustment of Preliminaries.

Adjustment of Preliminaries in terms of Options A or B shall apply notwithstanding the actual employment of resources by the **Contractor** in the execution of the **works**. The adjustment of Preliminaries shall be based on the options as selected in the **Contractor's Tender**.

For the adjustment of the Preliminaries both the **contract sum** and the **contract value** shall exclude:

- The amount of Preliminaries
- Any contingency sum
- Any amount in respect of **CPAP**

All inclusive of **tax**.

3.2.1 **Option A**

The amount of Preliminaries shall be adjusted in the following categories:

- An amount which shall not be varied.
- An amount which shall be varied in proportion to the **contract value** as compared with the **contract sum**.
- An amount which shall be varied in proportion to the **construction period** as compared to the initial **construction period** excluding revisions to the **construction period** for which the **Contractor** is not entitled to adjustment of the **contract value** in terms of the **agreement**.

The **Contractor** shall, within fifteen (15) working days of taking possession of the **site**, give the **Principal Agent** a breakdown, subdivided into the above categories, of the amount for Preliminaries in tabulated form, all to the satisfaction of the **Principal Agent**.

Should the **Contractor** fail to provide such information within the period stipulated then the amount for Preliminaries shall be deemed to be subdivided into the following proportions:

- 10% (ten percent) which amount shall not be varied.
- 15% (fifteen percent) which amount shall be varied in proportion to the **contract value** as compared with the **contract sum**.
- 75% (seventy-five percent) which amount shall be varied in proportion to the **construction period** as compared with the initial **construction period**.

For a lump sum document, should the **Contractor** fail to identify the amount for Preliminaries, then such an amount shall be deemed to be 7,5% (seven and a half percent) of the contract sum excluding:

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- Any contingency sum
- Any amount in respect of **CPAP**

All inclusive of **tax**.

Where sectional completion is required in terms of the agreement, the **Contractor** shall provide the **Principal Agent** with the division of the above categorised amounts into sections. Should the **Contractor** fail to provide such information within the period stipulated the categorised amounts shall be prorated to the value of each section.

3.2.2 Option B

The **Contractor** shall, within fifteen (15) **working days** of taking possession of the site, provide the **Principal Agent** with a detailed breakdown of the amount for Preliminaries. This breakdown shall set out, among others, full particulars of administrative, supervisory and other personnel, plant, transport and other resources and charges included in the amount for Preliminaries. The **Contractor** shall show the periods to which the individual items related with the charge rate for such items by means of a **programme** all to the satisfaction of the **Principal Agent**.

Where sectional completion is required in terms of the **agreement**, the **Contractor** shall provide the **Principal Agent** with details of the resources required for each section and those that are common to sections. Should the **Contractor** fail to provide such information within the period stipulated, Option A shall apply.

3.2.3 Payment certificate cash flow

The **Contractor** shall provide all reasonable assistance to the **Principal Agent** in the preparation of cash flow projections of claims for **payment certificates** where required by the **Employer**. The projections shall be based on the **programme** and shall be updated as and when the **programme** requires updating. The cooperation of the Contractor in terms of this item shall not prejudice his right to receive payment in terms of the **agreement**.

3.2.4	The contract value shall be adjusted according to CPAP [3.1]	(Yes / No)	Yes
3.2.5	Payment of Preliminaries [3.1.1-2]	(A or B)	
3.2.6	Adjustment of Preliminaries [3.2.1-2]	(A or B)	

4.0 EMPLOYER CHANGES TO JBCC STANDARD DOCUMENTS

4.1	Changes (if any) in terms of the Employer's Contract Data are accepted [3.11]. Where "no" an addendum referenced to this clause is to be attached.	(Yes / No)	Yes. Refer to EC 6
-----	--	------------	---

5.0 THE TENDER

- 5.1 This Tender is to be submitted to SANBI at the street address provided in the Invitation to Tender before the Tender closing date and time stated herein.
- 5.2 By the submission of this Tender to the **Employer**, the Tenderer offers and agrees to contract for, execute and complete the **works** for the Tender Sum as stated below.
- 5.3 Tenders will be opened in public directly after the stated closing time. Only the total Tender Sum as stated in each Tender will be announced.
- 5.4 The lowest or any Tender will not necessarily be accepted.
- 5.5 This Tender shall remain in full legal force for **one hundred and twenty (120) calendar days**. The Tenderer accepts liability for damages as may be suffered by the **Employer** should the Tender validity period not be honoured.
- 5.6 This Tender takes into account all listed items [4.0] for the purpose of preparing and submitting this Tender.

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

5.7 The successful Tenderer will be appointed in terms of the JBCC Principal Building Agreement.

5.8 TENDER SUM COMPILATION**Amount**

5.8.1 Tenderer's work including **prime cost amounts**

R

5.8.2 **Employer allowances** stated by the **Principal Agent**

R

5.8.3 **SUB TOTAL**

R

5.8.4 *Add tax* on 5.8.3

R

5.8.5 **TOTAL TENDER SUM inclusive of tax**

R

5.8.6 Tender Sum in words

Thus done and signed at on

.....
Name of Signatory

.....
Capacity of Authorised Signatory

.....
As witness

.....
for and on behalf of the Tenderer, who warrants
authorisation hereto

C1.3 Form of Construction Guarantee

C1.3.1 FIXED CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 5.0 of July 2007)

To:

South African National Biodiversity Institute
Private Bag X101
Silverton
0184

Sir,

**FIXED CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT
IN TERMS OF JBCC 2000 (5.0 EDITION JULY 2007)**

1. With reference to the contract between(hereinafter referred to as the "**Contractor**") and the **South African National Biodiversity Institute** (hereinafter referred to as the "**Employer**"), **Contract/Tender No.: SANBI: G379/2021 for APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE** (hereinafter referred to as the "contract") in the amount of

R(insert amount),

.....(insert amount in words),
(hereinafter referred to as the contract sum),

I/We,

in my/our Capacity as and hereby
representing

(hereinafter referred to as the "**Guarantor**") advise that the **Guarantor** holds at the **Employer's** disposal the sum of R....., (insert amount in figures)
.....(insert amount in words)
being 5% of the contract sum (excluding VAT), for the due fulfillment of the contract.

2. The **Guarantor** hereby renounces the benefits of the exceptions *non numeratae punia; non causa debiti; excussionis et divisionis; and de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and undertake to the **Employer** the amount guaranteed, on receipt of a written demand from the **Employer** to do so, stating that the **Employer** has a right of recovery against the **Contractor** in terms of 33.0 of the contract.
3. Subject to the above, but without in any way detracting from the **Employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **Employer**, at any stage prior to the expiry of this guarantee.
4. The amount id by the **Guarantor** in terms of this guarantee may be retained by the **Employer** on condition that upon the issue of the last final **payment certificate**, the **Employer** shall account to the **Guarantor** showing how this amount has been expended and refund any balance due to the **Guarantor**.
5. The **Employer** shall have the absolute right to arrange his affairs with the **Contractor** in any manner which the **Employer** deems fit and the **Guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **Guarantor**. Without derogating from the foregoing, any compromise, extension of the **construction period**, indulgence, release or variation of the **Contractor's** obligation shall not affect the validity of this guarantee.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

6. The **Guarantor** reserves the right to withdraw from this guarantee at any time by depositing the guaranteed amount with the **Employer**, whereupon the Guarantor's liability ceases.
7. This guarantee is neither negotiable nor transferable, and
 - (a) must be surrendered to the **Guarantor** at the time when the **Employer** accounts to the **Guarantor** in terms of clause 4 above, or
 - (b) shall lapse on the date of the last **certificate of Practical Completion**.
8. This guarantee shall not be interpreted as extending the **Guarantor's** liability to anything more than payment of the amount guaranteed.

Signed at on this day of 20.....

AS WITNESS

1.

2.

By and on behalf of

.....
(insert the name and physical address of the Guarantor)

Name:

Capacity:
(Duly authorised thereto by resolution attached marked Annexure A)

Date:

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the Guarantor must be clearly indicated and will be regarded as the Guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to:

C1.3.2: VARIABLE CONSTRUCTION GUARANTEE - JBCC 2000 PRINCIPAL BUILDING AGREEMENT (Edition 5.0 of July 2007)

To:

South African National Biodiversity Institute
Private Bag X101
Silverton
0184

Sir,

VARIABLE CONSTRUCTION GUARANTEE FOR THE EXECUTION OF A CONTRACT IN TERMS OF JBCC 2000 (5.0 EDITION JULY 2007)

5. With reference to the contract between(hereinafter referred to as the "**Contractor**") and the **South African National Biodiversity Institute** (hereinafter referred to as the "**Employer**"), **Contract/Tender No.: SANBI: G379/2021 for APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF A VISITORS' CENTRE, GATEHOUSE, STAFF FACILITIES, EXTERNAL WORKS, LANDSCAPING AND INSTALLATION OF BULK ELECTRICAL SERVICES FOR THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI) AT THE KWELERA NATIONAL BOTANICAL GARDEN, EASTERN CAPE**

(hereinafter referred to as the "contract") in the amount of

R(insert amount),

.....(insert amount in words),
(hereinafter referred to as the contract sum),

I/We,

in my/our Capacity as and hereby
representing

(hereinafter referred to as the "**Guarantor**") advise that the **Guarantor** holds at the **Employer's** disposal the sum
of R , (insert amount in figures)
.....(insert amount in words)
being 10% of the contract sum (excluding VAT), for the due fulfillment of the contract.

1. I / We advise that the **Guarantor's** liability in terms of this guarantee shall be as follows:

- (a) From and including the date on which this guarantee is issued and up to and including the date of payment of the amount in the last final **payment certificate**, the **Guarantor** will be liable in terms of this guarantee to the maximum amount of 10% of the **contract sum** (excluding VAT);
- (b) The **Guarantor's** liability shall reduce to 3 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of practical completion**, subject to such amount not exceeding 10% of the **contract sum** (excluding VAT).
- (c) The **Guarantor's** liability shall reduce to 1 % of the **contract value** (excluding VAT) as determined at the date of the last **certificate of final completion**, subject to such amount not exceeding 10 % of the **contract sum** (excluding VAT).
- (d) This guarantee shall expire on the date of the last **final payment certificate**.
- (e) The **Practical Completion Certificate** and the **Final Completion Certificate** referred to in this guarantee shall mean the certificates issued in terms of the contract.

2. The **Guarantor** hereby renounces the benefits of the exceptions *non numeratae punia; non causa debiti; excussionis et divisionis*; and *de duobus vel pluribus reis debendi* which could be pleaded against the enforcement of this guarantee, with the meaning and effect whereof I/we declare myself/ourselves to be conversant, and

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelela National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

- undertake to y the **Employer** the amount guaranteed on receipt of a written demand from the **Employer** to do so, stating that the **Employer** has a right of recovery against the **Contractor** in terms of 33.0 of the contract.
4. Subject to the above, but without in any way detracting from the **Employer's** rights to adopt any of the procedures provided for in the contract, the said demand can be made by the **Employer** at any stage prior to the expiry of this guarantee.
 5. The amount id by the **Guarantor** in terms of this guarantee may be retained by the **Employer** on condition that upon the issue of the last **final payment certificate**, the **Employer** shall account to the **Guarantor** showing how this amount has been expended and refund any balance due to the **Guarantor**.
 6. The **Employer** shall have the absolute right to arrange his affairs with the **Contractor** in any manner which the **Employer** deems fit and the **Guarantor** shall not have the right to claim his release on account of any conduct alleged to be prejudicial to the **Guarantor**. Without derogating from the foregoing, any compromise, extension of the construction period, indulgence, release or variation of the **Contractor's** obligation shall not affect the validity of this guarantee.
 7. The **Guarantor** reserves the right to withdraw from this guarantee at any time by depositing the amount guaranteed with the **Employer**, whereupon the **Guarantor's** liability ceases.
 8. This guarantee is neither negotiable nor transferable, and
 - (a) must be surrendered to the **Guarantor** at the time when the **Employer** accounts to the **Guarantor** in terms of clause 5 above, or
 - (b) shall lapse in accordance with clause 2(d) above.
 9. This guarantee shall not be interpreted as extending the **Guarantor's** liability to anything more than the payment of the amount guaranteed.

Signed at on this day of 20.....

AS WITNESS

1.

2.

By and on behalf of

.....
.....
.....
(insert the name and physical address of the Guarantor)

Name:

Capacity:
(Duly authorised thereto by resolution attached marked Annexure A)

Date:

- A. No alterations and/or additions of the wording of this form will be accepted.
- B. The physical address of the Guarantor must be clearly indicated and will be regarded as the Guarantor's *domicilium citandi et executandi*, for all purposes arising from this guarantee.
- C. This GUARANTEE must be returned to:
.....

Any reference to words "Bid" or Bidder" herein, and/or in any other documentation, shall be construed to have the same meaning as the words "Tender" or "Tenderer".

C1.4 Occupational Health and Safety Agreement 37(2)

AGREEMENT MADE AND ENTERED INTO BETWEEN THE SOUTH AFRICAN NATIONAL BIODIVERSITY INSTITUTE (SANBI)

(hereinafter called the "EMPLOYER")

.....
(Contractor / Mandatary / Company / CC Name)

IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH AND SAFETY ACT, ACT NO. 85 OF 1993 AS AMENDED

I,, representing

....., as an Employer
in its own right, do hereby undertake to ensure, as far as is reasonably practicable, that all work will be performed, and all equipment, machinery or plant used in such a manner as to comply with the provisions of the Occupational Health and Safety Act (OHSA) and the Regulations promulgated there under.

I furthermore confirm that I/we am/are registered with the Compensation Commissioner and that all registration and assessment monies due to the Compensation Commissioner have been fully paid or that I/we are insured with an approved licensed compensation insurer.

COID ACT Registration Number:

Or Compensation Insurer: Policy No.:

I undertake to appoint, where required, suitable competent persons, in writing, in terms of the requirements of OHSA and the Regulations and to charge him / them with the duty of ensuring that the provisions of OHSA and Regulations as well as the Council's Special Conditions of Contract, Way Leave, Lock-Out and Work Permit Procedures are adhered to as far as reasonably practicable.

I further undertake to ensure that any Sub-contractors employed by me will enter into an Occupational Health and Safety Agreement separately, and that such Sub-contractors comply with the conditions set.

I hereby declare that I have read and understand the appended Occupational Health and Safety Conditions and undertake to comply therewith at all times.

I hereby also undertake to comply with the Occupational Health and Safety Specification and Plan.

Signed at this day of 20

.....
WITNESS

.....
MANDATARY

Signed at this day of 20

.....
WITNESS

.....
FOR AND ON BEHALF OF THE EMPLOYER

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

OCCUPATIONAL HEALTH AND SAFETY CONDITIONS

1. The Chief Executive Officer of the Contractor shall assume the responsibility in terms of Section 16(1) of the Occupational Health and Safety Act (as amended). Should the Contractor assign any duty in terms of Section 16(2), a copy of such assignment shall immediately be provided to the representative of the Employer as defined in the Contract.
2. All work performed on the Employer's premises shall be performed under the supervision of the construction supervisor who understand the hazards associated with any work that the Contractor performs on the site in terms of Construction Regulations 2003.
3. The Contractor shall appoint a Competent Person who shall be trained on any occupational health and safety aspect pertaining to them or to the work that is to be performed.
4. The Contractor shall ensure that he familiarises himself with the requirements of the Occupational Health and Safety Act and that he, his employees, and any Sub-contractors, comply with them.
5. Discipline in the interests of occupational health and safety shall be strictly enforced.
6. Personal protective equipment shall be issued by the Contractor as required and shall be worn at all times where necessary.
7. Written safe work procedures and appropriate precautionary measures shall be available and enforced, and all employees shall be made conversant with the contents of these practices.
8. No substandard equipment/machinery/articles or substances shall be used on the site.
9. All incidents referred to in terms of Section 24 of the Occupational Health and Safety Act shall be reported by the Contractor to the Department of Labour and the Employer.
10. The Employer hereby obtains an interest in the issue of any formal inquiry conducted in terms of Section 32 of the Occupational Health and Safety Act and into any incident involving a Contractor and/or his employees and/or his Sub-contractor/s.
11. No use shall be made of any of the Employer's machinery / plant / equipment / substance / personal protective equipment or any other article without prior arrangement and written approval.
12. No alcohol or any other intoxicating substance shall be allowed on the site. Any person suspected of being under the influence of alcohol or any other intoxicating substance shall not be permitted access to or allowed to remain on the site.
13. Prior to commencement of any work, verified copies of all documents mentioned in the agreement, must be presented to the Employer.

PART C: THE CONTRACT

Part C2: Pricing Data

C2.1 Pricing Instructions

1. GENERAL INFORMATION

- a. Bills of Quantities
The **Bills of Quantities** forms part of and must be read and priced in conjunction with all the other documents forming part of the **contract documents**, the Standard Conditions of Tender, Conditions of Contract, Specifications, Drawings and all other relevant documentation.
- b. Value Added Tax
The **Contract Sum** must include for Value Added Tax (VAT). All rates, provisional sums, etc. in the **Bills of Quantities** must however be net (exclusive of VAT) with VAT calculated and added to the total value thereof in the Final Summary.
- c. Contract Price Adjustment
Tenderers are to take note that contract price adjustments are applicable to this contract

2. PRICING INFORMATION

1. These Bills of Quantities contain sequentially numbered pages as indicated in the contents list. Tenderers are required to check that the pages in their Bills of Quantities are complete/correct. If any pages are duplicated or omitted, or if any quantity or typing is unclear or if the Bills of Quantities contain any obvious errors, the Tenderer shall immediately notify the Principal Agent, so that the problem may be rectified. No responsibility for any errors arising from any of the above shall be accepted by the Principal Agent.
2. The Bills of Quantities form part of and shall be read in conjunction with the specification, which contains full description of the work required to be performed and the materials and equipment to be supplied and used in the execution of the works. Tenderers shall refer to the specification for the full meaning and description of work to be executed and materials and equipment to be supplied or used in the execution of the work.
3. Tenders shall be submitted with Bills of Quantities completed in full. Non or partial completion of the Bills of Quantities shall render tenders liable for disqualification.
4. The total Tender Price as carried forward to the Form of Offer and Acceptance, after correction for arithmetic extension errors, etc. shall be the Contract Price as awarded to the successful Tenderer. Tenderers are requested to check multiplication and addition of the Bills of Quantities. The rate(s) submitted shall be regarded as the price offered per item.
5. No changes, additions or omissions to the contents of the Bills of Quantities shall be permitted. If any changes, additions or omissions are made these shall not be recognised and the original wording of the Bills of Quantities shall apply.
6. The priced Bills of Quantities (of Tenderer) shall be checked by the Principal Agent. The Principal Agent reserves the right to request adjustments to one or more individual Tender Prices and to rectify contradictions and thereby alter the total Tender Price as submitted. The acceptance of this tender does not preclude the Principal Agent from querying or requesting of the Contractor to adjust the rates at any stage during the contract period or any extension thereto.
7. The responsibility of the accuracy of the quantities included in the Bills of Quantities, remains with the person who prepared the bills. The Tenderer is relieved from the responsibility of the measurement of quantities at tender stage and the Tender Amounts shall be for the quantities as listed in the bills. It is, however, expected from the Tenderer to include for minor construction items such as would be required for the complete execution of works in accordance with the specification.
8. The quantities in these Bills of Quantities shall not be used for the ordering of materials.
9. Changes in the scope of works included in the Bills of Quantities shall be permitted and shall be measured and priced at the tariffs as included in the Bills of Quantities and shall form an addition to or omission from

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwekwe National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

the total of the Bills of Quantities. Any changes not covered by any rates in the Bills of Quantities, shall be agreed and priced as non-schedule items in accordance with the conditions of contract.

10. The extent and value of variations shall be in accordance with the Conditions of Contract. Variations to the works prior to the execution thereof shall be priced as above. Variations to work already executed, shall not necessarily be priced in accordance with the Bills of Quantities and shall be judged individually on merit.
11. Except where the separate rate for the material and labour components of any item is specifically called for, the unit price of such item shall be deemed to include the supply and installation of that item.

The description of any items shall, except where otherwise specified, allow for the purchase, delivery, off-loading, storage, packing, lifting, placing, positioning and fixing in position, cutting and wastage, dies and patterns, models and equipment, temporary work, return of packing material, fixing costs, profit or other obligations of the contract arising out of the conditions of contract. All items prices shall exclude VAT but include any other tax or levy as applicable.

All items are measured to the net final quantity as indicated on the drawings with the completed work in the position as indicated on the drawing. All prices and rates shall allow for wastage for whatever reason, irrespective of any other standard measurement which may be currently used elsewhere.

12. Should the Contractor identify any additional issues or items which in his opinion are necessary for the complete and proper execution of the works, he shall identify such items in a covering letter attached to his tender and submit rates for these items. Mistakes in the physical measurement of items in the Bills of Quantities shall be rectified, but no claim shall be considered for the non-measurement of doubtful or minor items or claims resulting of criticism of method of measurement used or descriptions given. The priced Bills of Quantities shall not be adjusted on the grounds of the items which in the opinion of the Tenderer should have been brought into account unless so detailed in the accompanying letter.
13. The Bills of Quantities shall be adjusted to reflect the quantities of materials used on completion of whole or part of the works as a result of remeasurement, qualification or variations. The remeasured quantities shall form the basis for the calculation of payment certificates. The Bills of Quantities are not intended for the ordering of materials, etc. and the Contractor is advised to extract the quantities for the ordering of materials directly from the drawings and specification(s). Any order placed directly from the Bills of Quantities, shall be solely at the Contractor's risk.
14. The unit rates as entered in the Bills of Quantities with the exclusion of dayworks items, shall in all cases include any present and applicable sales tax or similar statutory duties.
15. Labour-intensive Works:
 - a) Those parts of the contract to be constructed using labour-intensive methods have been marked in the Bills of Quantities with the letters **LI** against every item so designated. The works, or parts of the works so designated are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters **LI** are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour-intensive specification in the Scope of Works.
 - b) Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorized use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C2.2 Bills of Quantities

Item No	Quantity	Amount R
<u>BILL No. 1</u>		
<u>PRELIMINARIES</u>		
<u>MEANING OF TERMS "TENDER/TENDERER"</u>		
Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"		
<u>PRELIMINARIES</u>		
The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0 - reprint 1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.		
The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this Agreement.		
The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these Bills of Quantities.		
Contractors are referred to the above mentioned documents for the full intent and meaning of each clause thereof.		
These clauses are referred to by number and heading only. Where standard clauses or options are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the above mentioned documents.		
Where an item is not relevant to this specific agreement such item is marked. "N/A" signifying "Not Applicable".		
Carried to Summary	R	
Bills of Quantities Bill No. 1 PRELIMINARIES		

PREAMBLES FOR TRADES

The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these Bills of Quantities and no claims arising from brevity of description of items fully described in the Model Preambles will be entertained.

Supplementary preambles are incorporated in these Bills of Quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles.

The Contractor's prices for all items throughout these Bills of Quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles.

Additionally, the Department of Public Works Construction Work Specification (PW371 A-B) is to apply.

PRICING OF PRELIMINARIES

Should the **Contractor** select Option A in terms of sub-clause 3.2.1 in the **Contract Data - Contractor to Employer (CE)** for the purpose of adjustment of these **Preliminaries**, the amount entered into the amount column in these **Preliminaries** is to be divided into one or more of the three categories provided namely Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item

Items not priced in these **Preliminaries** shall be deemed to be included elsewhere in these **Bills of Quantities**

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT**DEFINITIONS****1 A1 DEFINITIONS AND INTERPRETATION**

Clause 1.0

Clause 1.1 Definition of "**Commencement Date**" is added:

"**Commencement Date**" means the date that the **Agreement**, made in terms of the **Form of Offer and Acceptance**, comes into effect

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"**Construction Period**" means the period commencing on the **commencement date** and ending on the date of **Practical Completion**

Carried to Summary

Bills of Quantities
Bill No. 1
PRELIMINARIES

R

"Interest" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be in terms of the legislation of the Republic of South Africa, and in particular:

(a) in respect of interest owed by the Employer, the interest rate as determined by the Minister of Justice and constitutional Development, from time to time, in terms of section 1 (2) of the Prescribed Rate of Interest Act, 1975 (Act No. 55 of 1975), will apply, and

(b) in respect of interest owed to the Employer, the interest rate as determined by the Minister of Finance, from time to time, in terms of section 80 (1) (b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999), will apply

No clause

Fixed:_____ Value related:_____ Time related:_____

Item

OBJECTIVE AND PREPARATION

2 A2 OFFER, ACCEPTANCE AND PERFORMANCE OBLIGATIONS

Clause 2.0

Fixed:_____ Value related:_____ Time related:_____

Item

3 A3 DOCUMENTS

Clause 3.0

Clause 3.7 is amended by the addition of the following:

The **Contractor** shall supply and keep a copy of the **JBCC Series 2000 Principal Building Agreement** and **Preliminaries** applicable to this contract on the **site**, to which the **Employer, Principal Agent** and **agents** shall have access at all times

Fixed:_____ Value related:_____ Time related:_____

Item

4 A4 DESIGN RESPONSIBILITY

Clause 4.0

Fixed:_____ Value related:_____ Time related:_____

Item

5 A5 EMPLOYER'S AGENTS

Clause 5.0

Fixed:_____ Value related:_____ Time related:_____

Item

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

6	A6 SITE REPRESENTATIVE Clause 6.0 Fixed: _____ Value related: _____ Time related: _____	Item	
7	A7 COMPLIANCE WITH LAWS AND REGULATIONS Clause 7.0 Note: Without limiting the generality of the provisions of clause 7.0, the Contractor's attention is drawn to the provisions of the Construction Regulations, 2014 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the Employer shall prepare a documented site specific health and safety specification for the works and that the Employer shall ensure that the Contractor has made provision for the cost of health and safety measures during the execution of the works. The Contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications Fixed: _____ Value related: _____ Time related: _____	Item	
8	A8 WORKS RISK Clause 8.0 Fixed: _____ Value related: _____ Time related: _____	Item	
9	A9 INDEMNITIES Clause 9.0 Fixed: _____ Value related: _____ Time related: _____	Item	
10	A10 GENERAL INSURANCES Clause 10.0 Clause 10.0 is amended by the addition of the following clauses: 10.5 Damage to the Works (a) Without in any way limiting the Contractor's obligations in terms of the contract, the Contractor shall bear the full risk of damage to and/or destruction of the works by whatever cause during construction of the works and hereby indemnifies and holds harmless the Employer against any such damage. The Contractor shall take such precautions and security measures and other steps for the protection and security of the works as the Contractor may deem necessary		
	Carried to Summary	R	
	Bills of Quantities Bill No. 1 PRELIMINARIES		

- (b) The **Contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **Employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **Employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **Employer** bears the risk in terms of this contract, the **Contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

10.6 Injury to Persons or loss of or damage to Properties

- (a) The **Contractor** shall be liable for and hereby indemnifies the **Employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or neglect of any person for whose actions the **Employer** is legally liable
- (b) The **Contractor** shall be liable for and hereby indemnifies the **Employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **Employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or neglect of any person for whose actions the **Employer** is legally liable
- (c) The **Contractor** shall, upon receiving a **contract instruction** from the **Principal Agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **Employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **Contractor** or to deduct the same from amounts due to the **Contractor**
- (d) The **Contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **Employer** for the purpose of executing the **works** until the issue of the **Certificate of Practical Completion**
- (e) Where the execution of the **works** involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **Contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

- (f) The **Contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The **Contractor** shall, from the **commencement date** of the **works** until the **date of Practical Completion**, bear the full risk of and hereby indemnifies and holds harmless the **Employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **Contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the **Principal Agent**, the **Contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **Contractor's** own costs

10.7.2 Injury to persons or loss of or damage to property

The **Contractor** shall be liable for and hereby indemnifies and holds harmless the **Employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **Contractor** shall be liable for and hereby indemnifies the **Employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **Employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the **Contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **Contractor's** obligations in terms of the contract, the **Contractor** shall, within **twenty-one (21) calendar days** of the **commencement date** but before commencement of the **works**, submit to the **Employer** proof of such insurance policy, if requested to do so

Carried to Summary

Bills of Quantities
Bill No. 1
PRELIMINARIES

R

10.7.4 The **Employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **Contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **Contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **Employer** and the **Contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: _____ Value related: _____ Time related: _____

Item

11 **A11 SPECIAL INSURANCES**

Clause 11.0

Fixed: _____ Value related: _____ Time related: _____

Item

12 **A12 EFFECTING INSURANCES**

Clause 12.0

Fixed: _____ Value related: _____ Time related: _____

Item

13 **A13 ASSIGNMENT**

Clause 13.0

Fixed: _____ Value related: _____ Time related: _____

Item

14 **A14 SECURITY**

Clause 14.0

Clauses 14.1 - 14.9 are amended by replacing them with the following:

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted by the **Contractor** to the **Employer** will be as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.1.2 The **Employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **Employer** complies with the provisions of 33.4 in which event the **Employer's** entitlement shall take precedence over his obligations to refund the payment reduction security or portions thereof to the **Contractor**

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

14.2 In respect of contracts with a **contract sum** above R1 million, the **Contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **Employer** within **twenty-one (21) calendar days** from **commencement date**. Should the **Contractor** fail to select the **security** to be provided or should the **Contractor** fail to provide the **Employer** with the selected **security** within **twenty-one (21) calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **Contractor** shall furnish the **Employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within **twenty-one (21) calendar days** from **commencement date**

14.3.2 Within **twenty-one (21) calendar days** of the date of **Practical Completion** of the **works**, the **Employer** shall reduce the cash deposit to an amount equal to **three per cent (3%)** of the **contract value** (excluding VAT), and refund the balance to the **Contractor**

14.3.3 Within **twenty-one (21) calendar days** of the date of **Final Completion** of the **works**, the **Employer** shall reduce the cash deposit to an amount equal to **one per cent (1%)** of the **contract value** (excluding VAT) and refund the balance to the **Contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **Employer** shall refund the remainder of the cash deposit to the **Contractor**

14.3.5 The **Employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0, provided that the **Employer** complies with the provisions of 33.4 in which event the **Employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **Contractor**

14.3.6 The parties expressly agree that neither the **Employer** nor the **Contractor** shall be entitled to cede the rights to the deposit to any third party

14.4 Where **security** as a variable **construction guarantee** of **ten percent (10%)** of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **Contractor** shall furnish the **Employer** with an acceptable variable **construction guarantee** equal in value to **ten per cent (10%)** of the **contract sum** (excluding VAT) within **twenty-one (21) calendar days** from **commencement date**

14.4.2 The **variable construction guarantee** shall reduce and expire in terms of the **Variable Construction Guarantee** form included in the invitation to tender

14.4.3 The **Employer** shall return the **variable construction guarantee** to the **Contractor** within **fourteen (14) calendar days** of it expiring

Carried to Summary

Bills of Quantities
Bill No. 1
PRELIMINARIES

R

14.4.4 Where the **Employer** has a right of recovery against the **Contractor** in terms of 33.0, the **Employer** shall issue a written demand in terms of the **variable construction guarantee**

14.5 Where **security** as a **fixed construction guarantee** of **five per cent (5%)** of the **contract sum** (excluding VAT) and a **five per cent (5%) payment reduction** of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.5.1 The **Contractor** shall furnish a **fixed construction guarantee** to the **Employer** equal in value to **five per cent (5%)** of the **contract sum** (excluding VAT)

14.5.2 The **fixed construction guarantee** shall come into force on the date of issue and shall expire on the date of **Practical Completion**

14.5.3 The **Employer** shall return the **fixed construction guarantee** to the **Contractor** within **fourteen (14) calendar days** of it expiring

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

14.5.5 Where the **Employer** has a right of recovery against the **Contractor** in terms of 33.0, the **Employer** shall be entitled to issue a written demand in terms of the **fixed construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a cash deposit of **five per cent (5%)** of the **contract sum** (excluding VAT) and a payment reduction of **five per cent (5%)** of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **Contractor** shall furnish the **Employer** with a cash deposit equal in value to **five per cent (5%)** of the **contract sum** (excluding VAT) within **twenty-one (21) calendar days** from **commencement date**

14.6.2 Within **twenty-one (21) calendar days** of the date of **Practical Completion** of the **works**, the **Employer** shall refund the cash deposit in total to the **Contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4 Where the **Employer** has a right of recovery against the **Contractor** in terms of 33.0, the **Employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a **payment reduction of ten per cent (10%)** of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The **payment reduction** of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

Carried to Summary

Bills of Quantities
Bill No. 1
PRELIMINARIES

R

14.7.2 The **Employer** shall be entitled to recover expense and loss from the **payment reduction** in terms of 33.0, provided that the **Employer** complies with the provisions of 33.4 in which event the **Employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **Contractor**

14.8 Payments made by the **Guarantor** to the **Employer** in terms of the **fixed or variable construction guarantee** shall not prejudice the rights of the **Employer** or **Contractor** in terms of this **Agreement**

14.9 Should the **Contractor** fail to furnish the **security** in terms of 14.2, the **Employer**, in his sole discretion and without notification to the **Contractor**, is entitled to change the **Contractor's** selected form of **security** to that of a **ten per cent (10%)** payment reduction of the value certified in the **payment certificate** (excluding VAT), where after 14.7 shall be applicable

Fixed: _____ Value related: _____ Time related: _____

Item

EXECUTION

15 **A15 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable Health and Safety Plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within **twenty-one (21) calendar days of commencement date**

Clause 15.2.1 is amended by replacing it with the following clause:

Give the **Contractor** possession of the **site** within **ten (10) working days** of the **Contractor** complying with the terms of 15.1.2 and 15.1.4

Fixed: _____ Value related: _____ Time related: _____

Item

16 **A16 SITE AND ACCESS**

Clause 16.0

Fixed: _____ Value related: _____ Time related: _____

N/A

17 **A17 CONTRACT INSTRUCTIONS**

Clause 17.0

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

18	A18 SETTING OUT OF THE WORKS Clause 18.0 The Contractor shall notify the Principal Agent if any encroachments of adjoining foundations, building, structures, pavements, boundaries, etc. exist in order that the necessary arrangements may be made for the rectification of any such encroachments [18.1] Fixed:_____ Value related:_____ Time related:_____	Item	
19	A19 TEMPORARY WORKS AND PLANT Clause 19.0 Clause 19.1.1 - Enclosure of the works Clause 19.1.2 - Office accommodation Clause 19.2 - Advertising rights and notice boards Fixed:_____ Value related:_____ Time related:_____	Item	
20	A20 NOMINATED SUB-CONTRACTORS Refer to the provisions on general attendance hereinafter Fixed:_____ Value related:_____ Time related:_____	Item	
21	A21 SELECTED SUB-CONTRACTORS General attendance of Selected Sub-contractors for pricing by the Contractor shall be in accordance with the Selected Sub-contractors' agreement. Notwithstanding this provision, general attendance shall be deemed to include for the Contractor to provide free of charge to any Selected Sub-contractor such scaffolding as may reasonably be required by such Selected Sub-contractor for the execution of the relevant sub-contract work Fixed:_____ Value related:_____ Time related:_____	Item	
22	A22 EMPLOYER'S DIRECT CONTRACTORS Clause 22.0 Fixed:_____ Value related:_____ Time related:_____	Item	
23	A23 CONTRACTOR'S DOMESTIC SUB-CONTRACTORS Clause 23.0 Fixed:_____ Value related:_____ Time related:_____	Item	
Carried to Summary			R
Bills of Quantities Bill No. 1 PRELIMINARIES			

	<u>COMPLETION</u>		
24	A24 PRACTICAL COMPLETION Clause 24.0 Clause 24 is hereby amended by the addition of the following clause: 24.11 Should the Contractor , in the opinion of the Principal Agent , not have achieved Practical Completion of any area of the works, the Employer may, notwithstanding the Contractor's ongoing responsibilities, take possession of any such area and such possession by the Employer shall not be construed as the achievement of Practical Completion . Should such an instance arise, the Principal Agent will give notice to the Contractor , in writing, that the Employer is taking immediate possession without Practical Completion having been achieved in order to mitigate his exposure to any expenses. The Contractor's responsibilities and liabilities shall remain in full force and effect until, in the opinion of the Principal Agent , Practical Completion has been achieved. Access by the Contractor to any such area in possession of the Employer , prior to the Contractor's achievement of Practical Completion , shall be at the Employer's convenience, which will not be unreasonably withheld Fixed: _____ Value related: _____ Time related: _____	Item	
25	A25 WORKS COMPLETION Clause 25.0 Fixed: _____ Value related: _____ Time related: _____	Item	
26	A26 FINAL COMPLETION Clause 26.0 Fixed: _____ Value related: _____ Time related: _____	Item	
27	A27 LATENT DEFECTS LIABILITY PERIOD Clause 27.0 Fixed: _____ Value related: _____ Time related: _____	Item	
28	A28 SECTIONAL COMPLETION Clause 28.0 Fixed: _____ Value related: _____ Time related: _____	N/A	
	Carried to Summary	R	
	Bills of Quantities Bill No. 1 PRELIMINARIES		

29	A29 REVISION OF DATE FOR PRACTICAL COMPLETION Clause 29.0 The removal and replacement of materials and/or workmanship which do not conform to specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) Fixed: _____ Value related: _____ Time related: _____	Item	
30	A30 PENALTY FOR LATE OR NON-COMPLETION Clause 30.0 - Refer to C1.2: Contract Data for penalty details Fixed: _____ Value related: _____ Time related: _____ <u>PAYMENT</u>	Item	
31	A31 INTERIM PAYMENT TO THE CONTRACTOR Clause 31.0 The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 shall be at the sole discretion of the Principal Agent and such inclusion shall only be considered upon the provision, by the Contractor, of an approved guarantee issued by a registered commercial bank Clause 31.8 is amended by replacing it with the following two alternative clauses: Alternative A 31.8(A) Where a security is selected in terms of 14.1; 14.5 or 14.6, the value of the works in terms of 31.4.1 and materials and goods in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments: 31.8(A).1 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of Practical Completion 31.8(A).2 Ninety-seven per cent (97%) of such value in interim payment certificates issued on the date of Practical Completion and up to but excluding the date of Final Completion 31.8(A).3 Ninety-nine per cent (99%) of such value in interim payment certificates issued on the date of Final Completion and up to but excluding the final payment certificate in terms of 34.6 31.8(A).4 One hundred per cent (100%) of such value in the final payment certificate in terms of 34.6 except where the amount certified is in favour of the Employer. In such an event the payment reduction shall remain at the adjustment level applicable to the final payment certificate Carried to Summary Bills of Quantities Bill No. 1 PRELIMINARIES	R	

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 **Ninety per cent (90%)** of such value in interim **payment certificates** issued up to the date of **Practical Completion**

31.8(B).2 **Ninety-seven per cent (97%)** of such value in interim **payment certificates** issued on the date of **Practical Completion** and up to but excluding the date of **Final Completion**

31.8(B).3 **Ninety-nine per cent (99%)** of such value in interim **payment certificates** issued on the date of **Final Completion** and up to but excluding the **final payment certificate** in terms of 34.6

31.8(B).4 **One hundred per cent (100%)** of such value in the **final payment certificate** in terms of 34.6 except where the amount certified is in favour of the **Employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the **final payment certificate**

Clause 31.9 is amended by replacing the following:

Replace **seven (7) calendar days** with **thirty (30) calendar days**

Fixed: _____ Value related: _____ Time related: _____

Item

32 **A32 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

Where prices are submitted by the **Contractor** or **Nominated/Selected Sub-contractors** during the process of the works, in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the **Principal Agent** wish to accept any such prices prior to the issue of the **Certificate of Final Completion**, it shall be in writing

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

33	A33 RECOVERY OF EXPENSE AND LOSS Clause 33.0 33.2.9 the Contractor's failure or neglect to commence with the works on the dates prescribed in the contract 33.2.10 the Contractor's failure or neglect to proceed with the works in terms of the contract 33.2.11 the Contractor's failure or neglect for any reason to complete the works in accordance with the contract 33.2.12 the Contractor's refusal or neglect to comply strictly with any of the conditions of contract or any contract instructions and/or orders in writing given in terms of the contract 33.2.13 the Contractor's estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa Fixed:_____ Value related:_____ Time related:_____	Item	
34	A34 FINAL ACCOUNT AND FINAL PAYMENT Clause 34.0 Fixed:_____ Value related:_____ Time related:_____	Item	
35	A35 PAYMENT TO OTHER PARTIES Clause 35.0 Fixed:_____ Value related:_____ Time related:_____ <u>TERMINATION</u> A36 TERMINATION BY EMPLOYER - CONTRACTOR'S DEFAULT Clause 36.0 36.7 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 date stated 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 Fixed:_____ Value related:_____ Time related:_____	Item	
36	A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE Clause 37.0		
	Carried to Summary	R	
	Bills of Quantities Bill No. 1 PRELIMINARIES		

Clause 37.0 is amended by the addition of the following clause:

37.5 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 date stated 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

Fixed: _____ Value related: _____ Time related: _____

Item

37 **A38 TERMINATION BY CONTRACTOR - EMPLOYER'S DEFAULT**

Clause 38.0

Clause 38.0 is amended by the addition of the following clause:

38.7 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 date stated 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

Fixed: _____ Value related: _____ Time related: _____

Item

38 **A39 TERMINATION - CESSATION OF THE WORKS**

Clause 39.0

Fixed: _____ Value related: _____ Time related: _____

Item

39 **A40 SETTLEMENT OF DISPUTES**

Clause 40.0

Fixed: _____ Value related: _____ Time related: _____

Item

CONTRACT VARIABLES

40 **A41 POST TENDER PROVISIONS**

Clause 41.0

The **Contractor** is to complete before submission of his tender the JBCC Principal Building Agreement **Contract Data CE**

Tenderers are referred to **C1.2: Contract Data** for variables pertaining to this contract

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

41	A42 CONTRACTUAL AGREEMENT Clause 42.0 The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties Tenderers are referred to C1.2: Contract Data for variables pertaining to this contract Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>SECTION B: JBCC PRELIMINARIES</u> <u>B1.0 DEFINITIONS AND INTERPRETATION</u>		
42	<i>B1.1 Definitions and interpretation</i> Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B2.0 DOCUMENTS</u>		
43	<i>B2.1 Checking of documents</i> Fixed:_____ Value related:_____ Time related:_____	Item	
44	<i>B2.2 Bills of Quantities</i> Fixed:_____ Value related:_____ Time related:_____	Item	
45	<i>B2.3 Availability of construction documentation</i> Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B3.0 PREVIOUS WORK AND ADJOINING PROPERTIES</u>		
46	<i>B3.1 Previous work - dimensional accuracy</i> Fixed:_____ Value related:_____ Time related:_____	Item	
47	<i>B3.2 Previous work - defects</i> Fixed:_____ Value related:_____ Time related:_____	Item	
48	<i>B3.3 Inspection of adjoining property</i> Fixed:_____ Value related:_____ Time related:_____	Item	
	Carried to Summary	R	
	Bills of Quantities Bill No. 1 PRELIMINARIES		

49	B2.5 Priced documents		
	Fixed:_____ Value related:_____ Time related:_____	Item	
50	B2.6 Tender submission		
	Clause 2.6 is amended by replacing “JBCC Form of Tender” with C1.1: Form of Offer & Acceptance		
	Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B3.0 THE SITE</u>		
51	B3.1 Defined works area		
	Fixed:_____ Value related:_____ Time related:_____	Item	
52	B3.2 Geotechnical Investigation		
	Fixed:_____ Value related:_____ Time related:_____	Item	
53	B3.3 Inspection of the site		
	A compulsory site briefing session will take place on site on 9 February 2021 at 10:00 at the Kwelera National Botanical Garden Offices (Farm No. 1505, Road DR02731, Kwelera)		
	Fixed:_____ Value related:_____ Time related:_____	Item	
	<u>B4.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS' INSTRUCTIONS</u>		
54	B4.1 Samples of materials		
	Fixed:_____ Value related:_____ Time related:_____	Item	
55	B4.2 Workmanship samples		
	Fixed:_____ Value related:_____ Time related:_____	Item	
56	B4.3 Shop drawings		
	Fixed:_____ Value related:_____ Time related:_____	Item	
57	B4.4 Compliance with manufacturers' instructions		
	Fixed:_____ Value related:_____ Time related:_____	Item	
	Carried to Summary	R	
	Bills of Quantities Bill No. 1 PRELIMINARIES		

Fixed: Value related: Time related:

Item

B6.0 TEMPORARY SERVICES

Fixed:_____ Value related:_____ Time related:_____

Item

Fixed: Value related: Time related:

Item

Fixed: Value related: Time related:

Item

Fixed: Value related: Time related:

Item

Note that an additional EPWP type notice board will be required; refer to **C3.1: Description of the Works**.

Fixed: _____ Value related: _____ Time related: _____

Item

B7.0 PRIME COST AMOUNTS

Fixed: _____ Value related: _____ Time related: _____

Item

B8.0 SPECIAL ATTENDANCE ON SELECTED SUB-CONTRACTORS

Fixed: Value related: Time related:

Item

B9.0 GENERAL

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Summary

R

-19-

67	B9.2 Protection/isolation of existing/sectionally occupied works		
	Fixed: _____ Value related: _____ Time related: _____	Item	
68	B9.3 Security of the works		
	Fixed: _____ Value related: _____ Time related: _____	Item	
69	B9.4 Notice before covering work		
	Fixed: _____ Value related: _____ Time related: _____	Item	
70	B9.5 Disturbance		
	Fixed: _____ Value related: _____ Time related: _____	Item	
71	B9.6 Environmental disturbance		
	Fixed: _____ Value related: _____ Time related: _____	Item	
72	B9.7 Works cleaning and clearing		
	Fixed: _____ Value related: _____ Time related: _____	Item	
73	B9.8 Vermin		
	Fixed: _____ Value related: _____ Time related: _____	Item	
74	B9.9 Overhand work		
	Fixed: _____ Value related: _____ Time related: _____	Item	
75	B9.10 As-built information		
	Fixed: _____ Value related: _____ Time related: _____	Item	
<u>B10. SCHEDULE OF VARIABLES</u>			
Information necessary for completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this contract.			
10.1	Provisional Bills of Quantities		
[2.2]	The quantities are provisional: No		
10.2	Availability of construction documentation		
[2.3]	Construction of documentation is complete: Yes		
10.3	Previous work - dimensional accuracy		
[3.1]	Details: Nil		
Carried to Summary		R	
Bills of Quantities			
Bill No. 1			
PRELIMINARIES			

10.4 [3.2]	Previous work - defects Details: To be checked on site by Contractor prior to commencing with building operations	
10.5 [3.3]	Inspection of adjoining properties Specific requirements: The Contractor must inspect adjoining properties and immediately bring to the notice of the Principal Agent of any consequences that may arise from the building works	
10.6 [7.2]	Water Option A (by Contractor) (Yes) Option B (by Employer - free of charge when available) (No) Option C (by Employer - metered) (No)	
10.7 [7.3]	Electricity Option A (by Contractor) (Yes) Option B (by Employer - free of charge when available) (No) Option C (by Employer - metered) (No)	
10.8 [7.4]	Telecommunications Telephone (by Contractor) (Yes) Facsimile (by Contractor) (Yes) eMail (by Contractor) (Yes)	
10.9 [7.5]	Ablution facilities Option A (by Contractor) (Yes) Option B (by Employer) (No)	
10.10 [9.1]	Protection of works Specific requirements: The Contractor shall protect the works for the duration of the contract	
10.11 [9.2]	Protection of existing/sectionally occupied works Protection is required No	
10.12 [9.5]	Disturbance Specific requirements: The Contractor shall keep the site, structures, etc. well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the Principal Agent	
Carried to Summary		R
Bills of Quantities Bill No. 1 PRELIMINARIES		

10.13 ***Environmental disturbance***

[9.6] Specific requirements:

Protection of existing trees, shrubs and wetland areas is required.
 Details/Information will be made available at the compulsory site
 inspection meeting.

Carried to Summary

R

Bills of Quantities
 Bill No. 1
 PRELIMINARIES

SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific **Preliminaries** items which apply to this contract except where **N/A** (Not Applicable) appears against an item

76 **C1 CONTRACT DRAWINGS**

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the **Tenderer** to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

Should any part of the drawings not be clearly intelligible to the **Tenderer** he shall, before submitting his tender, obtain clarification in writing from the **Principal Agent**

Fixed: _____ Value related: _____ Time related: _____

Item

77 **C2 GENERAL PREAMBLES**

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Department of Public Works. This document shall be read in conjunction with the **Bills of Quantities** and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value related: _____ Time related: _____

Item

78 **C3 TRADE NAMES**

Wherever a trade name for any product has been described in the **Bills of Quantities**, the **Tenderers'** attention are drawn to the fact that any other product of equal quality may be used subject to the written approval of the **Principal Agent** being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

Fixed: _____ Value related: _____ Time related: _____

Item

79 **C4 IMPORTED MATERIALS AND EQUIPMENT**

Where imported items are listed in the tender documents, the **Tenderer** shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations.

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions

Fixed: _____ Value related: _____ Time related: _____

Item

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

80	C5 HIV/AIDS AWARENESS It is required of the Contractor to thoroughly study the HIV/AIDS Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. The Contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A 31 of "Bill No. 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Fixed: _____ Value related: _____ Time related: _____	Item
81	C6 OCCUPATIONAL HEALTH AND SAFETY ACT The Contractor shall comply with the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and Safety Act, 19093 (Act No. 85 of 1993), including COVID-19 Requirements as per Government Notice No. 479 dated 29 April 2020. It is required of the Contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this section of the Bills of Quantities The Contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A31 of the Preliminaries or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained Fixed: _____ Value related: _____ Time related: _____	Item
	Carried to Summary	R
	Bills of Quantities Bill No. 1 PRELIMINARIES	

82 **C7 REPORTING BY CONTRACTOR**

The Contractor is required to complete the **CONTRACTOR MONTHLY REPORT**, which is to be submitted together with the Contractor's payment claim. Payment of the Contractor is conditional on this information being accurate and timeously provided. Payment shall be subject to the Employer giving the Contractor a tax invoice for the amount due. The Contractor is to take note of the following requirements - At the bottom of the **CONTRACTOR MONTHLY REPORT**, the Contractor must sign the document as proof that the people indicated have worked the number of days.

Fixed:_____ Value related:_____ Time related:_____

Item

83 **C8 LABOUR-INTENSIVE WORKS/CLO ALLOWANCE****Labour-Intensive Works -**

Those parts of the contract to be constructed using labour-intensive methods have been marked in the Bills of Quantities with the letters [LI] against every item so designated. The works, or parts of the works so designated, are to be constructed using labour-intensive methods only. The use of plant to provide such works, other than plant specifically provided for in the scope of work, is a variation to the contract. The items marked with the letters [LI] are not necessarily an exhaustive list of all the activities which must be done by hand, and this clause does not over-ride any of the requirements in the generic labour intensive specification in the Scope of Works.

Payment for items which are designated to be constructed labour-intensively (either in this schedule or in the Scope of Works) will not be made unless they are constructed using labour-intensive methods. Any unauthorized use of plant to carry out work which was to be done labour-intensively will not be condoned and any works so constructed will not be certified for payment.

CLO Allowance -

Any additional costs, etc. relating to the employment and payment of the CLO (CLO Allowance indicated in PROVISIONAL SUMS section of the Bills of Quantities), should be allowed for in this item (Clause C8).

Fixed:_____ Value related:_____ Time related:_____

Item

Carried to Summary

R

Bills of Quantities
Bill No. 1
PRELIMINARIES

Item No	Quantity	Rate	Amount R
<u>BILL No. 2</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
A Geotechnical Investigation has been carried out on this site and the report is included as C4.1: Geotechnical Information in the tender document.			
Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated, these are separately measured.			
<u>Excavations</u>			
No claim for rock excavation will be entertained unless the Contractor has timeously notified the Quantity Surveyor thereof prior to backfilling.			
Class of excavations will be in accordance with SANS 1200D Clause 3.1. For the purpose of this project "Soft Rock" will have the same meaning as Intermediate excavations as defined in SANS 1200D Clause 3.1.			
Boulder excavation definitions as stated in SANS 1200D will not apply.			
Classification of soils and gravel is in accordance with SANS 1200M: 1996 Table 3A & 3B or TRH14.			
Open face excavation is in accordance with SANS 2001: Part BE1.			
<u>Carting away of excavated material</u>			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stockpiles situated on the building site.			
Carried to Summary			R
Bills of Quantities Bill No. 2 EARTHWORKS			

EXCAVATION, FILLING, ETC. OTHER THAN BULK**Excavation in earth not exceeding 2m deep:**

1	Trenches	m ³	42
2	Ground beam trenches	m ³	176
3	Bases	m ³	32

Excavation in earth exceeding 2m and not exceeding 4m deep:

4	Trenches	m ³	1
5	Bases	m ³	1

Extra over trench and hole excavations in earth for excavation in:

6	Soft rock	m ³	15
7	Hard rock	m ³	28

Extra over all excavations for carting off site to a location to be identified by the Contractor:

8	Surplus material from excavations	m ³	233
---	-----------------------------------	----------------	-----

Risk of collapse of excavations:

9	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	2 695
10	Sides of trench and hole excavations exceeding 1,5m deep	m ²	10

WORKING SPACE**Excavate back sides of ground beam excavations exceeding 500mm and not exceeding 1500mm for the placement and removal of formwork including backfilling and compacting:**

11	For placing and removing formwork to walls, etc. against excavated faces	m ²	1 362
----	--	----------------	-------

Carried to Summary**R**

Bills of Quantities
 Bill No. 2
 EARTHWORKS

<u>Keeping excavations free of water:</u>				
12	Keeping excavations free of all water other than subterranean water		Item	
<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 95% Mod AASHTO dry density:</u>				
13	Backfilling to trenches, holes, etc.	m ³	29	
<u>Recompaction of bulk earthworks surfaces:</u>				
14	Recompaction of previously compacted and prepared surfaces, etc. to a minimum of 90% Mod AASHTO dry density	m ²	845	
<u>Earth filling supplied by the Contractor under surface beds or rafts:</u>				
15	G5 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 95% Mod AASHTO dry density	m ³	197	
<u>Prescribed density tests on filling:</u>				
16	Modified AASHTO density test	No	6	
<u>SOIL POISONING</u>				
<u>Soil insecticide in accordance with SANS 5859 (compliance certificate will be required after completion):</u>				
17	Under surface beds or rafts, etc. including forming and poisoning shallow furrows against foundation walls, etc. filling in and ramming	m ²	845	
18	To bottoms and sides of trenches, etc.	m ²	2 020	
Carried to Summary				
Bills of Quantities				
Bill No. 2				
EARTHWORKS				

R

[illegible]

Item No		Quantity	Rate	Amount R
	<u>BILL No. 3</u>			
	<u>CONCRETE, FORMWORK & REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>Concrete</u>			
	All concrete work to be carried out in accordance with SANS 1200G.			
	<u>Cost of tests</u>			
	The costs of making, storing and testing of concrete test cubes as required under Clause 7 'Tests' of SANS 1200G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the Principal Agent.			
	The testing shall be undertaken by an independent firm or institution nominated by the Contractor to the approval of the Principal Agent (test cubes are measured separately).			
	<u>Formwork</u>			
	Description of formwork shall be deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.			
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.			
	Carried to Summary			
	Bills of Quantities Bill No. 3 CONCRETE, FORMWORK AND REINFORCEMENT			
			R	

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

Degree of accuracy: **Accuracy II** as SANS 1200G.

Reinforcement

Reinforcement to include 30MPa concrete cover blocks to ensure correct cover to reinforcing.

UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

15MPa/19mm Concrete:

1	Blinking under footings, beams and bases (Provisional)	m ³	10
---	--	----------------	----

REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES

30MPa/19mm Concrete:

2	Strip footings (Provisional)	m ³	11
3	Ground beams (Provisional)	m ³	207
4	Bases (Provisional)	m ³	7

REINFORCED CONCRETE

30MPa/19mm Concrete:

5	Raft slabs	m ³	116
6	Isolated beams	m ³	16
7	Rectangular and square columns	m ³	7
8	Rectangular and square columns in foundations (Provisional)	m ³	2

CONCRETE TESTS

Carried to Summary

R

Bills of Quantities

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

Test blocks:

9	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	30		
---	--	----	----	--	--

ROUGH FORMWORK (DEGREE OF ACCURACY III)**Rough formwork to sides:**

10	Ground beams in foundations (Provisional)	m ²	1 622		
11	Square or rectangular columns in foundations (Provisional)	m ²	60		
12	Square or rectangular columns propping up not exceeding 3,5m high above bearing level	m ²	40		
13	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	314		

Rough formwork to sides and soffits:

14	Beams propping up not exceeding 3,5m high above bearing level	m ²	140		
----	---	----------------	-----	--	--

Forming recess/nib to concrete, including all necessary formwork, etc.:

15	20 x 20mm Chamfer along top or bottom edges	m	86		
----	---	---	----	--	--

MOVEMENT JOINTS, ETC.**Expansion joints formed of bitumen impregnated softboard between vertical concrete and brick surfaces:**

16	10mm Thick in joint not exceeding 300mm wide	m	21		
----	--	---	----	--	--

Saw cut joints:

17	6 x 25mm In top of concrete	m	35		
----	-----------------------------	---	----	--	--

Two layers of 0,6mm thick galvanised sheeting with grease in between, in slip joint between horizontal concrete and brick surfaces, including cement mortar bed:

18	Slip joint not exceeding 300mm wide	m	123		
----	-------------------------------------	---	-----	--	--

STEEL REINFORCEMENT (PROVISIONAL)

Carried to Summary

R

Bills of Quantities

Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

Mild steel reinforcement to structural concrete work:

19	10mm Diameter bars	t	2.58		
20	8mm Diameter bars	t	0.19		

High tensile steel reinforcement to structural concrete work:

21	32mm Diameter bars	t	0.43		
22	25mm Diameter bars	t	2.73		
23	20mm Diameter bars	t	3.81		
24	16mm Diameter bars	t	1.29		
25	12mm Diameter bars	t	2.46		
26	10mm Diameter bars	t	1.37		

Fabric reinforcement:

27	Type 245 fabric reinforcement in concrete surface beds, etc.	m ²	845		
----	--	----------------	-----	--	--

Carried to Summary

R

Bills of Quantities
 Bill No. 3
 CONCRETE, FORMWORK AND REINFORCEMENT

Item No		Quantity	Rate	Amount R
	<u>BILL No. 4</u>			
	<u>MASONRY</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>BRICKWORK IN FOUNDATIONS</u>			
	<u>(PROVISIONAL)</u>			
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class II mortar:</u>			
1	One brick wall	m ²	43	
2	One brick wall in two half brick skins, the two skins tied together with and including galvanised wire ties	m ²	5	
3	270mm Hollow wall in two half brick skins with cavity between filled in with and including unreinforced concrete (20MP/19mm)	m ²	8	
	<u>BRICKWORK IN SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in Class II mortar:</u>			
4	Half brick wall	m ²	187	
5	Half brick wall in beamfilling	m ²	36	
6	Half brick wall built in lining against concrete	m ²	64	
7	One brick wall in two half brick skins, the two skins tied together with and including galvanised wire ties	m ²	642	
8	270mm Hollow wall in two half brick skins with cavity between, the two skins tied together and including galvanised wire ties	m ²	464	
9	220mm Wide brick-on-edge cill set sloping and slightly projecting	m	1	
	<u>BRICKWORK SUNDRIES</u>			
10	Closing 50mm cavity of hollow wall horizontally with one course of brickwork	m	50	
	Carried to Summary			R
	Bills of Quantities Bill No. 4 MASONRY			

11	Closing 50mm cavity of hollow wall vertically with brickwork half brick wide	m	191		
12	Splayed mortar fillet one course high in 50mm cavity	m	273		
	<u>Bagging and sealing the outer face of the inner skin of hollow wall with 1:3 cement and sand mixture and seal with two coats bitumen emulsion waterproofing coating:</u>				
13	On walls	m ²	516		
	<u>Brickwork reinforcement:</u>				
14	75mm Wide reinforcement built in horizontally	m	3 566		
15	75mm Wide reinforcement built in horizontally in foundations (Provisional)	m	120		
16	150mm Wide reinforcement built in horizontally	m	1 790		
17	150mm Wide reinforcement built in horizontally in foundations (Provisional)	m	157		
	<u>Prestressed fabricated lintols including necessary temporary supports:</u>				
18	110 x 70mm Lintol in lengths not exceeding 3m	m	60		
19	110 x 70mm Lintol in lengths exceeding 3m and not exceeding 4,5m	m	15		
20	110 x 70mm Lintol in lengths exceeding 4,5m and not exceeding 6m	m	59		
21	146 x 70mm Lintol in lengths not exceeding 3m	m	71		
22	146 x 70mm Lintol in lengths exceeding 3m not exceeding 4,5m	m	14		
	<u>Turning pieces to brick lintols, etc.:</u>				
23	220mm Wide turning piece	m	57		
	<u>Galvanised hoop iron ties, cramps, etc.:</u>				
24	30 x 1,2mm Cramp 800mm long one end built into brickwork and other end fixed to timber	No	87		
Carried to Summary				R	
Bills of Quantities					
Bill No. 4					
MASONRY					

25	30 x 1,6mm Tie 1000mm long fixed to concrete or brickwork and other end wrapped around and fixed to timber roof members	No	201		
	<u>Hot dip galvanised brickwork supports, etc.:</u>				
26	125 x 75 x 8mm Thick angle bolted to concrete (bolts elsewhere measured)	m	123		
27	12mm Diameter anchor bolt 200mm long fixed through 8mm thick angle section (elsewhere measured) in concrete, complete with nut and washer	No	272		
	<u>Air bricks, etc.:</u>				
28	229 x 152mm Clay vermin proof air brick and building in	No	14		
	<u>Insulation in cavities of hollow walls:</u>				
29	25mm Thick Isoboard or equivalent high density (32kg/m ³) rigid extruded polystyrene 100% closed cell insulation board, with tongued and grooved joints fixed to inner skin of hollow wall in panels as the work proceeds, including all cutting and fitting, etc.	m ²	516		
	<u>FACE BRICKWORK</u>				
	<u>Corobrik Platinum Satin FBX or equivalent clay face brickwork, manufactured in accordance with SANS 227:2007, including pointing with 6mm square recessed horizontal and vertical joints as the work proceeds:</u>				
30	Extra over ordinary brickwork for faced brickwork	m ²	332		
31	Extra over ordinary brickwork for faced brickwork in foundations (Provisional)	m ²	16		
32	110mm Wide brick-on-end soldier course lintol/band	m	31		
33	220mm Wide brick-on-edge cill set sloping and slightly projecting	m	30		
34	Fair raking cutting to faced brickwork	m	40		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 4				
	MASONRY				

<u>Corobrik Silvergrey Travertine FBS or equivalent clay face brickwork, manufactured in accordance with SANS 227:2007, including pointing with 6mm square recessed horizontal and vertical joints as the work proceeds:</u>					
35	Extra over ordinary brickwork for faced brickwork	m ²	327		
36	220mm Wide brick-on-edge coping to top of one brick wall, faced on top and both ends	m	20		
37	220mm Wide brick-on-edge cill set sloping and slightly projecting	m	20		
38	110mm Wide brick-on-end soldier course lintol/band	m	38		
<u>Corobrik Rustgold Travertine FBS or equivalent clay face brickwork, manufactured in accordance with SANS 227:2007, including pointing with 6mm square recessed horizontal and vertical joints as the work proceeds:</u>					
39	Extra over ordinary brickwork for faced brickwork	m ²			Rate Only
<u>STONWORK</u>					
<u>Stone wall cladding:</u>					
40	Quartz Oregon Natural Stone strip cladding as supplied by Natural Stone Warehouse or equivalent, cladding laid in random patterns in Tylon CM11 adhesive and grout, all in accordance with the manufacturer's instructions, including cleaning and removal of excess grout residue and dirt and sealing with Natural Stone Matt Sealer	m ²	46		
<u>BUILDERS' WORK RELATING TO ELECTRICAL AND MECHANICAL INSTALLATIONS, INCLUDING MAKING GOOD TO ALL FINISHES DISTURBED (PROVISIONAL)</u>					
<u>Forming holes through brick walls for pipework and/or ducting to receive grilles (grilles supplied and fitted by others), etc.:</u>					
41	25 - 32mm Diameter hole through 270mm hollow wall for pipe	No	25		
42	40 - 50mm Diameter hole through 230mm wall for pipe	No	12		
43	40 - 50mm Diameter hole through 270mm wall for pipe	No	10		
Carried to Summary				R	
Bills of Quantities					
Bill No. 4					
MASONRY					

44	50 - 75mm Diameter hole through 270mm hollow wall for pipe	No	7
45	75 - 80mm Diameter hole through 270mm hollow wall for pipe	No	3
46	100 - 110mm Diameter hole through 230mm wall for pipe	No	1
47	100 - 110mm Diameter hole through 270mm hollow wall for pipe	No	1
48	350 x 350mm Hole through 230mm wall for duct	No	2
49	450 x 450mm Hole through 270mm hollow wall for duct	No	2
	<u>Forming recesses in brick walls for switchboards, valve boxes, etc.:</u>		
50	400 x 400 x 110mm Deep	No	8
Carried to Summary			
Bills of Quantities			
Bill No. 4			
MASONRY			

[illegible]

Item No		Quantity	Rate	Amount R
<u>BILL No. 5</u>				
<u>WATERPROOFING</u>				
The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents				
<u>DAMPPROOFING OF WALLS AND FLOORS</u>				
<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape:</u>				
1	Under surface beds	m ²	2 235	
<u>One layer of 375 micron embossed polyethylene dampproof course (SANS 952-1985 type B):</u>				
2	In walls, under cills, etc.	m ²	126	
Carried Forward to Section Summary				R
Bills of Quantities Bill No. 5 WATERPROOFING				

Item No		Quantity	Rate	Amount R
	<u>BILL No. 6</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Straight cutting</u>			
	Descriptions of all roof coverings are deemed to include for all straight cutting			
	<u>PROFILED METAL SHEETING AND ACCESSORIES</u>			
	<u>0,55mm Thick Saflok 410 Colorplus AZ200 or equivalent interlocking aluminium-zinc roof sheeting and accessories, fixed to timber purlins (elsewhere measured) at 1700mm centres with concealed fixing, pierce-fixing through each sheet under the flashings, cappings or along the top of the sheets (for low pitch roofs), all in accordance with the manufacturer's instructions:</u>			
1	Roof covering with pitch not exceeding 25 degrees	m ²	1 348	
	<u>0,8mm Thick galvanised sheet iron flashings, etc. finished to same finish as roof sheeting, including fixing to interlocking roofing on steel and/or timber roof trusses:</u>			
2	Ridge/hip capping to suit roof profile	m	188	
3	Valley gutter six times bent to 610mm girth	m	83	
4	Barge flashing bent three times with 580mm girth	m	94	
5	Headwall/sidewall flashing	m	75	
6	Counter flashing	m	75	
7	Flashing around 150mm diameter extraction pipe (Provisional)	No	8	
	Carried to Summary			R
	Bills of Quantities Bill No. 6 ROOF COVERINGS			

<u>Sundries</u>					
8	Poly closer to profile of roof sheeting	m	202		
<u>ROOF AND WALL INSULATION</u>					
<u>Insulation R4 double sided reflective foil based insulation:</u>					
9	Laid taut over purlins (at approximately 1700mm centres) and fixed concurrent with roof covering, including taped laps and nylon straining wires	m ²	1 348		
<u>RAINWATER DISPOSAL</u>					
<u>0.9mm Thick Watertite or equivalent seamless aluminium gutters and rainwater pipes with ColourTechG4 finish, including fixing with heavy duty brackets in accordance with the manufacturer's instructions:</u>					
10	150 x 125mm Ogee eaves gutter	m	247		
11	Extra over gutter for angle	No	19		
12	Extra over gutter for stopped end	No	18		
13	Extra over gutter for outlet to suit 110 x 75mm rainwater pipe	No	16		
14	110 x 75mm Rainwater pipe	m	48		
15	Extra over rainwater pipe for bend or shoe	No	16		
16	Extra over rainwater pipe for eaves offset to 600mm projection	No	16		
<u>Sundries:</u>					
17	150mm Wide expanded aluminium mesh leaf guard fixed to gutter in accordance with the manufacturer's instructions	m	274		
Carried to Summary				R	
Bills of Quantities					
Bill No. 6					
ROOF COVERINGS					

Section No. 1

Bills of Quantities

Bill No. 6

ROOF COVERINGS

COLLECTION PAGE**Page
No****Amount
R**

Total Brought Forward from Page No.

44

Total Brought Forward from Page No.

45

Carried Forward to Section Summary

R

Bills of Quantities

Bill No. 6

ROOF COVERINGS

Prefabricated timber (20 degree pitch) roof truss construction, with trusses spaced at 1200mm centres with 50 x 76mm sawn softwood purlins at 1700mm centres (elsewhere measured), fixed to rafters with and including hurricane clips, runners, bracing, cleats, etc. supplied and fixed complete, including hoisting as required:

- 2 Roof construction of double pitched hipped type roof to irregular shaped building in three sections, all with 600mm eaves overhangs all round, one section size 15,44 x 15,44m, another section size 9,98 x 6,47m and other section size 9,98 x 6,47m (Staff Facility) (Refer drawing No. 7.202 Rev B)

No

1

- 3 Roof construction of double pitched gable type roof to irregular shaped building in three sections, all with 600mm eaves overhangs all round, one section size 16,67 x 23,64m, another section size 12,50 x 13,45m and other section size 12,50 x 13,45m (Visitors Centre) (Refer drawing No. 4.202)

No

1

Sundries:

- 4 Galvanised mild steel truss hanger to take end of 38 x 114mm timber rafter, bolted to wall and timber

No

54

STRUCTURAL ROOF TIMBERS

Sawn softwood:

- 5 50 x 152mm Beam in single lengths exceeding 2,4m and not exceeding 3,9m

m

162

- 6 76 x 228mm Beam in single lengths exceeding 2,4m and not exceeding 3,9m

m

10

- 7 76 x 228mm Beam in single lengths exceeding 3,9m and not exceeding 6,6m

m

66

Wrot laminated softwood:

- 8 50 x 220mm Beam in single lengths exceeding 3,9m and not exceeding 6,6m

m

67

GENERAL ROOF TIMBERS

Sawn softwood:

- 9 50 x 76mm Purlins

m

1 269

Carried to Summary

R

Bills of Quantities

Bill No. 7

CARPENTRY AND JOINERY

10	38 x 114mm Wall plate	m	202		
11	38 x 228mm Gangboarding (Provisional)	m	83		
	<u>Wrot softwood:</u>				
12	22 x 222mm Valley boarding	m	165		
	<u>EAVES, VERGES, ETC.</u>				
	<u>Sawn softwood:</u>				
13	38 x 38mm Battens fixed to walls	m	94		
14	38 x 38mm Battens nailed to rafter ends	m	39		
	<u>Pressed fibre cement:</u>				
15	12 x 225mm Fascia fixed vertically to timber battens at end of roof trusses (elsewhere measured) with brass screws, including H-profile PVC joint strips, caps, etc.	m	309		
	<u>SKIRTINGS, RAILS, ETC.</u>				
	<u>Wrot Meranti:</u>				
16	19 x 69mm Angle rounded skirting with 19mm quadrant bead planted on	m	142		
	<u>SOLID TIMBER DOORS</u>				
	<u>Swartland or equivalent hardwood commercial doors suitable for painting both sides, hung to steel door linings:</u>				
17	44mm Thick horizontal slatted door Code PD60, size 813 x 2032mm high	No	4		
18	Extra over above for forming rectangular cut out size 350 x 290mm high, complete with framing around and fitted with and including Trox Type AGS-T or equivalent anodised aluminium louvre, fixed securely	No	5		
19	44mm Thick horizontal slatted door Code PD61, size 900 x 2032mm high	No	3		
20	44mm Thick horizontal slatted semi exterior door Code BSHRZMS2, size 813 x 2032mm high	No	9		
Carried to Summary				R	
Bills of Quantities					
Bill No. 7					
CARPENTRY AND JOINERY					

21	44mm Thick horizontal slatted door Code PD60 with and including opening to suit view panel size 250 x 580mm high, fitted with and including 6,38mm thick clear laminated safety glass secured with 10 x 22mm wrot hardwood framed and mitred glazing beads planted on all around on both sides, size 813 x 2032mm high	No	1		
	<u>SEMI SOLID FLUSH DOORS</u>				
	<u>Semi solid doors with commercial veneer suitable for painting both sides and hardwood exposed edges all round, hung to steel door linings:</u>				
22	40mm Thick door, size 813 x 2023mm high	No	1		
23	Extra over above for forming rectangular cut out size 400 x 4000mm high, complete with framing around and fitted with and including Trox Type AGS-T or equivalent anodised aluminium louvre, fixed securely	No	1		
	<u>MEDIUM DENSITY FIBREBOARD</u>				
	<u>Supawood with plain and smooth surface suitable for painting both sides, hung to timber door linings:</u>				
24	22mm Thick door, size 600 x 2100mm high	No	2		
25	22mm Thick double door in two equal leaves, size 1200 x 2100mm high	No	7		
	<u>FRAMES, ETC.</u>				
	<u>Wrot Meranti:</u>				
26	32 x 69mm Rebated frame plugged and screwed to wall	m	25		
27	44 x 69mm Rebated frame plugged and screwed to wall	m	20		
	<u>Supawood:</u>				
28	22 x 44mm Rebated frame plugged and screwed to wall	m	48		
	<u>BEADS, ETC.</u>				
	<u>Wrot Meranti:</u>				
29	19mm Quadrant bead planted on	m	176		
	<u>COMPOSITE DECKING</u>				
	Carried to Summary			R	
	Bills of Quantities Bill No. 7 CARPENTRY AND JOINERY				

Eva Last Infinity or equivalent composite decking system comprising arched decking with solid Infinity fascia, fixed with and including stainless steel clips and screws to 38 x 114mm treated sawn softwood joists and beams, secured to and including creosote treated gum poles, all in strict accordance with the manufacturer's instructions:

30	Composite deck system with Infinity I-Series Tiger Cove arched board profile including deck support structure, fixing, etc.	m ²	286
31	Composite deck system with Infinity I-Series Tiger Cove arched board profile including deck support structure, fixing, etc. in ramps	m ²	14
32	150 x 12mm Infinity fascia fixed to deck system	m	208

GUMPOLE FENCING

33	60mm Diameter treated round peeled gumpole assembly 1900mm high, fixed vertically side by side, secured with and including two 50 x 50 x 5mm hot dip galvanised steel angle section horizontal bearers along the total length, one vertical bearer at each end and intermediate vertical bearers at approximately 2420mm centres, all securely fixed to gumpoles, etc. with gumpoles' lower ends securely bedded in unreinforced concrete (20MPa/19mm) base size 150 x 200mm high, including excavations, etc.	m	16
----	--	---	----

JOINERY FITTINGS

The references in the descriptions refer to the respective joinery fittings/units and combination units as per the Architects' detail sheets/drawings attached to these Bills of Quantities.

All components are to be assembled, securely fixed, adjusted, etc. and primed/varnished/painted and/or finished as per the Architects' detail sheets and prices shall include for same.

Carried to Summary

R

Bills of Quantities
Bill No. 7
CARPENTRY AND JOINERY

All cupboards to have 20mm thick medium density fibreboard faced with high pressure laminate on both faces as backing, secured to walls, etc. and supported with and including 22 x 44mm wrot softwood and/or chipboard bearers where indicated as such on the Architects' drawings and/or details.

All cupboard units with medium density fibreboard and/or glass doors (single or double) to be fitted with an intermediate shelf (except if otherwise described) formed of 20mm thick medium density fibreboard faced with high pressure laminate on both faces.

All cupboard and/or drawer units shall be fitted with 20mm thick medium density fibreboard faced with high pressure laminate on both faces as base shelving to the units.

Where cupboards are fitted with medium density fibreboard on top (closing off the units on top), these are to be formed of 20mm thick medium density fibreboard faced with high pressure laminate on both faces.

Where the descriptions refer to medium density fibreboard, it shall be deemed to indicate PG Bison Melawood and/or SupaWhite products with melamine finish to Architects' approval.

All prices for the descriptions of joinery fittings that may have doors, drawers, etc. are to be inclusive of all specified furniture, etc. as well as the components described above.

Visitor's Centre:

- 34 Shelving unit (L-shaped on plan) with an overall girth of 4830mm, consisting of two sections, one section 2010mm long and other section 2820mm long, each section consisting of five tiers of 22 x 450mm wrot laminated softwood shelving, hung on and screwed to and including white epoxy coated adjustable shelf brackets, secured to and including fifteen white epoxy wall bands 1920mm long, each wall band three times plugged and screwed to wall with top fixing secured with and including 6mm diameter x 50mm long rawlbolts, refer drawing E15-891- 4.201C for floor plan layout

No

2

Carried to Summary

R

Bills of Quantities

Bill No. 7

CARPENTRY AND JOINERY

35	U-shaped floor fixed reception counter unit in three sections, all sections open from back and consisting of 32mm thick Zimbabwe Black granite or equivalent approved granite tops, the two parallel sections 590mm wide and other section 730mm wide, all supported along front edges and two ends on and including suitable bearers, tops supported along open edges on and including eight Gelmar 3241 80mm diameter x 870mm high kitchen legs, securely fastened to floor and underside of granite, overall girth of counter 11630mm, refer drawing E15-891-4.201C	No	1		
	<u>Staff Facility:</u>				
36	Slatted seating 500mm wide, consisting of 22 x 44mm wrot Meranti twice angle rounded slats spaced 20mm apart, twice brass screwed from below through support brackets (elsewhere measured) (brackets spaced at 404mm centres)	m	8		
	<u>Store:</u>				
37	Shelving unit formed of 22mm thick wrot laminated softwood 600mm wide in three tiers, hung on and screwed to a total of six white epoxy coated adjustable shelf brackets, brackets secured to and including 1280mm long white epoxy wall bands, each three times plugged and screwed to wall with top of bands secured with and including 6mm diameter x 50mm long rawlbolts, overall length of unit 2250mm, refer drawing E15-891-7.201B	No	1		
	<u>Kitchen:</u>				
38	Irregular shaped floor fixed combination serving counter in three sections, all sections open from back and consisting of 32mm thick Zimbabwe Black granite or equivalent top 840mm wide, splay cut and joined at two irregular connections, tops supported along open edges on and including five Gelmar 3241 80mm diameter x 870mm high kitchen legs, securely fastened to floor and underside of granite, two ends of granite top supported on and including suitable bearers at connections to wall, vertical front section consisting of 20mm thick medium density fibreboard 900mm high, set back 40mm with recessed skirting portion at bottom, all elements securely fastened together, total girth of combination unit 8110mm, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
Carried to Summary					R
Bills of Quantities					
Bill No. 7					
CARPENTRY AND JOINERY					

39	Raised top to serving counter (elsewhere measured) consisting of 32mm thick Zimbabwe Black granite or equivalent top 300mm wide, securely fastened to with and including 20mm thick medium density fibreboard vertical support 168mm high, three vertical supports 260 x 168mm high, assembly securely fastened together, total length of raised top unit 2830mm, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
40	Wall hung cupboard unit with two double doors, all formed of 20mm thick medium density fibreboard, overall size 1300 x 300 x 600mm high, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
41	Combination floor fixed cupboard unit consisting of 32mm thick Zimbabwe Black granite or equivalent top 600mm wide, with opening formed in top for circular prep bowl (elsewhere measured), unit consisting of two double doors, sides and bottom, all formed of 20mm thick medium density fibreboard, overall size 1600 x 600 x 900mm high, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
42	Floor fixed cupboard unit consisting of 32mm thick Zimbabwe Black granite or equivalent top 600mm wide, with four drawers, sides and back, all formed of 20mm thick medium density fibreboard, overall size 550 x 600 x 900mm high, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
43	Floor fixed stove top unit consisting of 32mm thick Zimbabwe Black granite or equivalent top 720mm wide, circular openings to be formed in top for stove (by others), overall size 810 x 720 x 900mm high, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
44	Worktop infill section consisting of 32mm thick Zimbabwe Black granite or equivalent top 600mm wide, top supported along front edge on and including suitable bearer, open edge on and including one Gelmar 3241 80mm diameter x 870mm high kitchen leg, securely fastened to floor and underside of granite, open below, overall size 290 x 600 x 900mm high, refer drawings E15-891-7.201B and E15-891-7.601	No	1		
<u>STEEL LOCKERS</u>					
<u>Ricor or equivalent hammertone paint finished lockers complete, including fixing:</u>					
45	Code BPGM02 two tier factory locker, four times bolted to wall with and including 10mm diameter expansion bolts 70mm long, size 300 x 450 x 1800mm high	No	10		
Carried to Summary				R	
Bills of Quantities					
Bill No. 7					
CARPENTRY AND JOINERY					

[illegible]

<u>9,5mm Thick Gyproc RhinoBoard or equivalent taper edged gypsum boarding with staggered joints and jointing with RhinoTape strips. with and including 38 x 38mm sawn softwood battens at junctions of vertical and horizontal panels, including skimming joints with and including RhinoLite skimming plaster:</u>					
4	Horizontal ceiling fixed to and including 38 x 38mm sawn softwood brander at 400mm centres at joints, against walls, etc.	m ²	58		
5	Raking ceiling with and including 38 x 38mm sawn softwood brander at 400mm centres	m ²	45		
<u>CORNICES</u>					
<u>Gypsum cornices plugged to walls:</u>					
6	75mm Coved cornice including sealing along both edges with silicone sealer to render airtight	m	395		
<u>SUSPENDED CEILINGS</u>					
<u>12,5mm Thick Gyproc RhinoBoard or equivalent square edged 'Frost White' vinyl clad gypsum ceiling boarding, secured to and including Donnceil T37K grid, with screws to main tees at 1200mm centres and 35 x 32mm high cross tees at 600mm centres, with and including all necessary angles, cleats, hangers, grids, locking type end clips, etc.:</u>					
7	Suspended ceiling system fixed not exceeding 1m below timber trusses (spaced at approximately 1000mm centres)	m ²	495		
8	Extra over for downlighter opening	No	44		
9	Extra over for 600 x 600mm light fitting including additional trimmers, hangers, etc.	No	6		
10	Extra over for 600 x 1200mm light fitting including additional trimmers, hangers, etc.	No	38		
<u>Shadowline powder coated cornices fixed in accordance with the manufacturer's instructions:</u>					
11	Cornice fixed securely along perimeter of suspended ceiling	m	432		
<u>BULKHEAD ASSEMBLIES</u>					
Carried to Summary				R	
Bills of Quantities Bill No. 8 CEILINGS ETC					

	<u>9,5mm Thick Gyproc RhinoBoard or equivalent taper edged gypsum boarding with staggered joints and jointing with RhinoTape strips, suspended not exceeding 1m from timber trusses, secured to and including Donnceil T37K grid, with screws to main tees at 1200mm centres and 35 x 32mm high cross tees at 600mm centres, with and including all necessary angles, cleats, hangers, grids, locking type end clips, etc. with and including 38 x 38mm sawn softwood battens at junctions of vertical and horizontal panels, including skimming joints with and including RhinoLite skimming plaster:</u>				
12	Straight assembly size 650mm wide x 150mm high	m	14		
	<u>INSULATION</u>				
	<u>Aerolite or equivalent insulation:</u>				
13	100mm Thick layer closely fitted and laid on top of brandering between roof timbers, etc.	m ²	776		
	<u>TOILET PARTITIONS</u>				
	<u>Vitraflex or equivalent toilet partitions with 20mm thick vitreous enamelled steel sheet faced particle board bonded panels and natural anodised aluminium edging and top rails, including fixing components and standard ironmongery comprising indicator bolts, coat hooks, door stops, toilet roll holders and rubber buffers:</u>				
14	Wall stile size 115 x 1850mm high complete with single telescopic stainless steel leg anchor in a standard arrangement	No	5		
15	End stile size 150 x 1850mm high complete with two single telescopic stainless steel leg anchors in a standard arrangement	No	3		
16	Full stile size 230 x 1850mm high complete with two single telescopic stainless steel leg anchors in a standard arrangement	No	14		
17	Partition size 1800 x 1800mm high complete with two single telescopic stainless steel leg anchors in a standard arrangement	No	17		
18	Door size 740 x 1800mm high	No	18		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 8				
	CEILINGS ETC				

Section No. 1

Bills of Quantities

Bill No. 8

CEILINGS ETC

COLLECTION PAGE

Total Brought Forward from Page No.

Total Brought Forward from Page No.

Total Brought Forward from Page No.

**Page
No****Amount
R**

56

57

58

Carried Forward to Section Summary

R

Bills of Quantities

Bill No. 8

CEILINGS ETC

Item No		Quantity	Rate	Amount R
	<u>BILL No. 9</u>			
	<u>FLOOR COVERINGS, PLASTIC LININGS, ETC.</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>FLOOR COVERINGS, ETC.</u>			
	<u>2,5mm Thick Polyflor Expona Commercial Wood PUR (wear layer 0.55mm) or equivalent polish free vinyl planks of colour to be selected by the Architects, fixed with approved adhesive and installed in accordance with the manufacturer's instructions:</u>			
1	On self-levelling screed (elsewhere measured)	m ²	180	
	<u>2,5mm Thick Polyflor Expona Commercial Stone PUR (wear layer 0.55mm) or equivalent polish free vinyl tiles of colour to be selected by the Architects, fixed with approved adhesive and installed in accordance with the manufacturer's instructions:</u>			
2	On self-levelling screed (elsewhere measured)	m ²	14	
	<u>POLISH, SEALERS, ETC.</u>			
	<u>Prepare and apply three coats floor dressing in accordance with the manufacturer's instructions on:</u>			
3	Polyflor Expona vinyl surfaces (Provisional)	m ²	194	
	Carried Forward to Section Summary			R
	Bills of Quantities			
	Bill No. 9			
	FLOOR COVERINGS			

Item No		Quantity	Rate	Amount R
	<u>BILL No. 10</u>			
	<u>IRONMONGERY</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Fixing of ironmongery, etc.</u>			
	Where applicable fixing of ironmongery are to include for any required fixing stainless steel screws, etc.			
	All prices should include for assembly, fixing in accordance with the manufacturers' instructions, adjusting, etc.			
	<u>Finishes to ironmongery</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin Bronze Lacquered; CH Chromium Plated; SC Satin Chromium Plated; SE Silver Enamelled; GE Grey Enamelled; AS Anodised Silver; AB Anodised Bronze; AG Anodised Gold; ABL Anodised Black; PB Polished Brass; PL Polished and Lacquered; PT Epoxy Coated and SD Sanded			
	<u>HINGES, BOLTS, ETC.</u>			
	<u>Dormakaba or equivalent:</u>			
1	DBB-SS-009 102 x 75 x 3mm Two ball bearing butt hinge	No	5	
2	PHA3 S DD Three point panic bar set for double door, door leaf size 1000 x 2270mm high, including cutting to fit door width where required	Sets	2	
	<u>Alufab (Pty) Ltd. or equivalent:</u>			
3	M1519 150mm Lever flush bolt fixed to aluminium door	No	32	
4	2040 200mm Centre pin aluminium sinkless hinge	No	60	
	Carried to Summary			R
	Bills of Quantities Bill No. 10 IRONMONGERY			

	<u>Union or equivalent:</u>				
5	32mm Brass piano hinge 2100mm long	No	16		
6	100 x 25mm SC Brass barrel bolt	No	4		
7	100 x 25mm SC Brass necked bolt	No	4		
	<u>SA Sliding Systems or equivalent:</u>				
8	Galvanised drop bolt 600mm long	No	2		
9	Locking keep to suit 600mm drop bolt (elsewhere measured)	No	2		
10	334SS Rattle proof dust excluding socket	No	4		
	<u>LOCKS</u>				
	<u>Dormakaba or equivalent:</u>				
11	35mm D02935 SS narrow stile hook lock	No	2		
	<u>Dormakaba or equivalent:</u>				
12	DO36S SS Cylinder sashlock	No	16		
13	DHK004201 Half knob cylinder	No	2		
14	DO37D SS Cylinder deadlock	No	25		
15	DCE-002 SS Round cylinder escutcheon	Pairs	24		
16	DCE-105 SS Narrow stile cylinder escutcheon	Pairs	2		
17	DWC-005 Bathroom WC indicator and turnknob	No	1		
18	DWC-006 Bathroom WC indicator and turnknob	No	3		
19	DMWC-SS-008 Bathroom deadlock	No	4		
20	66mm DDC106601 MK Five pin euro-profile double cylinder grand master keyed	No	31		
21	66mm DKC106601 MK Five pin euro-profile knob cylinder grand master keyed	No	15		
22	55mm ISEO 1450.00.55 Backset single long throw two pin profile cylinder gate lock	No	5		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 10				
	IRONMONGERY				

23	50mm DPL1000 MK Padlock	No	1		
	<u>Saunderson Security or equivalent:</u>				
24	BBL Lockbox	No	3		
	<u>HANDLES</u>				
	<u>Dormakaba or equivalent:</u>				
25	DFP-SS-025 Rectangular flush pull handle	No	4		
26	325 x 25mm DPH-301B Straight tubular pull handle flange fixing	No	6		
27	300 x 300mm DPH210 BTB Straight tubular pull handle including BTB fixing sets	No	6		
28	382 x 32mm DPH215 BTB D-shaped offset tubular pull handle (fixing sets included)	Pairs	20		
29	SH822 SS Cyl lever handle on rose with and including cylinder escutcheon	Sets	17		
	<u>Union or equivalent:</u>				
30	96mm AL5516AS Centred aluminium cupboard pull handle	No	4		
	<u>POLISHED STAINLESS STEEL PUSH AND KICK PLATES</u>				
	<u>Dormakaba or equivalent:</u>				
31	813 x 300mm DKP-430-SF Kick plate with and including countersunk holes for screws (screws included)	No	6		
	<u>DOOR CLOSER ASSEMBLIES</u>				
	<u>Dormakaba or equivalent:</u>				
32	TS73V PA DC EN 2-4 Delayed action door closer fixed to timber, steel or aluminium door lining/frame with and including parallel arm bracket	Sets	3		
33	TS73V PA EN 2-4 Non hold open door closer fixed to timber, steel or aluminium door lining/frame with and including parallel arm bracket	Sets	1		
Carried to Summary				R	
Bills of Quantities					
Bill No. 10					
IRONMONGERY					

34	TS91B Non hold open slide channel door closer fixed to timber, steel or aluminium door lining/frame	No	5		
<u>SLIDING DOOR GEAR ASSEMBLIES</u>					
<u>Dormakaba or equivalent:</u>					
35	ES200 Easy sliding gear operator set to suit bi-parting aluminium doors, complete with Opti Combi 1 safety and motion sensors, battery backup, electro mechanical lock, top track, track stop, end caps, top hanger, track pelmet receiver clip, side fixing brackets, etc. including installation in accordance with the manufacturer's instructions	No	2		
<u>DOOR STOPS, CABIN HOOKS, ETC.</u>					
<u>Sundries:</u>					
36	10mm Diameter steel dowel 100mm long in and including mortice in timber and concrete	No	36		
37	H076 Heavy duty stainless steel spring clip	No	4		
<u>Dormakaba or equivalent:</u>					
38	DHC-SS-031B Stainless steel hat and coat hook with rubber buffer	No	1		
39	DDS-SS-021 Floor mounted door stop	No	20		
40	DDH-SS-020 Wall buffer	No	14		
41	DPS-SS-032 Stainless steel dust proof strike mounted to wall	No	16		
42	BTS75 SAA-HO Hold open double action floor spring for aluminium door, including forming recess in concrete floor and applying 2300 sealing compound	Sets	20		
<u>Halcast or equivalent:</u>					
43	401SC Door stop and holder	No	4		
44	200mm SC Brass cabin hook and eye, with and including 100 x 100 x 75mm thick chamfered wrot Meranti block twice bolted to wall with anchor bolts	No	11		
<u>LETTERS, NAMEPLATES, ETC.</u>					
Carried to Summary				R	
Bills of Quantities Bill No. 10 IRONMONGERY					

Contractor to provide samples of nameplates for approval of the Architect

Dormakaba or equivalent:

45	DSS-131 F Female sign	No	2
46	DSS-130 M Male sign	No	2
47	DSS-134 B Baby change sign	No	1
48	DSS-132 MF Male/female sign	No	2
49	DSS-133 P Disabled persons sign	No	3
50	DSS-136 EL Electrical sign	No	3
51	DSS-137 T Telkom sign	No	3
52	DSS-145 FHR Fire hose reel sign	No	2
53	DSS-146 FE Fire extinguisher sign	No	1

BATHROOM FITTINGS, ETC.

Serra or equivalent:

54	SD1353 MR3 Toilet roll holder assembly	No	23
55	SD1501 Eve Plus sanitary bin assembly	No	15
56	SD1127 Slimline Disposer wall bin system complete	No	7
57	SS1118 Deluxe Auto Cut Paper Towel Dispenser assembly complete	No	6
58	SD1280 Fil Soap dispenser assembly complete	No	32
59	SD2742 Towel shelf assembly complete	No	4

Railman or equivalent polished stainless steel disabled toilet accessories and fixing in accordance with the manufacturer's instructions:

60	SR5 Straight grab rail to wall	No	3
61	SR1 Flush valve rail to wall	No	3
62	DL2 Dogleg rail with two flanges to wall	No	3

Carried to Summary

R

Bills of Quantities
Bill No. 10
IRONMONGERY

63	SR2A Cistern rail to wall with	No	3		
64	CNTX400A Fold down seat to wall	No	1		
	<u>Ceramic soap holders:</u>				
65	152 x 305mm Semi recessed double holder	No	4		
	<u>Chilli-B or equivalent:</u>				
66	Code CL-01052 horizontal baby changing station assembly fitted complete	No	1		
	<u>RECESSED MATS</u>				
67	1500 x 1000mm Genesis Romat (Code R8900) or equivalent recessed mat assembly in anthracite colour, complete with stainless steel edge trim, forming recess in floor, etc.	No	4		
	<u>BLINDS, ETC.</u>				
	<u>Dekor Blinds Basswood or equivalent 50mm wooden blinds fitted complete of colour to Architect's choice:</u>				
68	Blind assembly to suit window size 900 x 1800mm high	No	6		
69	Ditto size 900 x 2100mm high	No	2		
70	Ditto size 1600 x 1200mm high	No	1		
71	Ditto size 2700 x 2100mm high	No	4		
Carried to Summary				R	
Bills of Quantities					
Bill No. 10					
IRONMONGERY					

Item No		Quantity	Rate	Amount R
	<u>BILL No. 11</u>			
	<u>METALWORK</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>Hot dip galvanising</u>			
	Where hot dip galvanising is specified, it should be executed in accordance with SANS 121:2011 (ISO 1461:2009), unless otherwise described.			
	<u>AAAMSA Specification</u>			
	All aluminium doors, windows and shopfronts are to comply with the latest AAAMSA GENERAL SPECIFICATION FOR GLAZED ARCHITECTURAL PRODUCTS (SANS 10160 Category A).			
	<u>ALUMINIUM WINDOWS</u>			
	Burglar bars are to be installed on all opening sections, unless otherwise stated, 3 per opening section consisting of 30 x 5mm thick polycarbonate strip burglar proofing fixed horizontally and mechanically secured internally with rivet fixing			
	<u>Purpose made natural anodised aluminium windows glazed with and including 6,38mm thick obscure laminated safety glass, plugged to brickwork or concrete, including clear silicone sealant applied around (burglar proofing to all sections):</u>			
1	Window in two sections with one transome, upper section top hung to open out and lower section with fixed pane, size 600 x 900mm high overall	No	37	
2	Window in three sections with two transomes, two upper sections equal size (uppermost section top hung to open out; lower section with fixed pane), lowermost section with fixed pane, size 900 x 2100mm high overall (W05)	No	2	
	Carried to Summary			R
	Bills of Quantities Bill No. 11 METALWORK			

<u>Purpose made natural anodised aluminium windows glazed with and including 6,38mm thick clear laminated safety glass, plugged to brickwork or concrete, including clear silicone sealant applied around (burglar proofing to all opening sections):</u>			
3	Window in single fixed pane, size 1080 x 1000mm high (W03)	No	2
4	Extra for 90 degree connection of last with sliding window unit 1000mm high (elsewhere measured)	No	2
5	Window in three equal sections with two transomes, two upper sections top hung to open out and lower section with fixed pane, size 900 x 1800mm high overall (W07)	No	6
6	Window in three main sections with two mullions forming centre section in single fixed pane (approximately 400mm wide), flanked by two identical sections on both sides, each section with one transome, upper section top hung to open out and lower section in fixed pane, size 1600 x 1200mm high overall (W06)	No	1
7	Window in two sections with one section in fixed pane, one sliding section adjacent (approximately 1000mm wide), size 2300 x 1000mm high overall (W03, W04)	No	2
8	Window in three sections with two sections in fixed panes, one sliding section adjacent (approximately 1000mm wide), size 3430 x 1000mm high overall (W09, W11)	No	2
9	Window in four equal sections with three mullions, all sections in fixed panes, size 4440 x 1000mm high overall (W10)	No	1
10	Window in four main sections with three mullions forming two identical centre sections in single fixed panes (each approximately 1100mm wide), flanked by two identical sections on both sides, each in three sections with two transomes, two upper sections equal size (two upper sections top hung to open out; lower section with fixed pane), size 4000 x 1800mm high overall (W08)	No	2
<u>ALUMINIUM DOORS, SHOPFRONTS, ETC.</u>			
Carried to Summary			
Bills of Quantities			
Bill No. 11			
METALWORK			
			R

<u>Purpose made natural anodised aluminium door and shopfront assemblies, glazed with and including 6,38mm thick clear laminated safety glass, plugged to brickwork or concrete, including clear silicone sealant applied around:</u>					
11	Double door and frame assembly (single swing) in two equal leaves, each leaf in two fixed pane sections with one transome, size 1430 x 2100mm high overall (D09)	No	2		
12	Double door and frame assembly (single swing) in two equal leaves, each leaf in two fixed pane sections with one transome, size 1800 x 2100mm high overall (D10)	No	4		
13	Single door and sidelight assembly, in two sections with mullion, sidelight unit with transome in two sections with fixed panes (approximately 860mm wide), door (single swing) with transome in two sections with fixed panes, frame around door unit, size 1800 x 2100mm high overall (SF04; SF09)	No	4		
14	Shopfront assembly in four sections with one transome and one mullion, all sections in fixed panes, size 1800 x 2100mm high overall (SF06; SF07)	No	2		
15	Extra for 90 degree connection of last with shopfront assembly 2100mm high (elsewhere measured)	No	2		
16	Shopfront assembly in six sections with one transome and two mullions, all sections in fixed panes, size 4770 x 2100mm high overall (SF01)	No	1		
17	Shopfront assembly in three main sections with two mullions forming centre section with one transome in two fixed panes (approximately 900mm wide), flanked by two identical sections on both sides, each section with two transomes, upper section top hung to open out and two lower sections in fixed panes, size 2700 x 2100mm high overall (SF03)	No	4		
18	Double door and two sidelights assembly, in three sections with two mullions, each sidelight unit with transome in two sections with fixed panes (each sidelight approximately 1465mm wide), double door (single swing) in two equal leaves, each leaf with transome in two sections with fixed panes, frame around door unit, size 1800 x 2100mm high overall (SF02)	No	2		
Carried to Summary				R	
Bills of Quantities					
Bill No. 11					
METALWORK					

19	Double door and one sidelight assembly in two sections with mullion, sidelight unit with transome in two sections with fixed panes (approximately 800mm wide), double door (single swing) in two equal leaves, each leaf with transome in two sections with fixed panes, frame around door unit, size 2600 x 2100mm high overall (SF06; SF07)	No	2		
20	Two double door and centre sidelight assembly, in three sections with two mullions, centre sidelight unit with transome in two sections with fixed panes (sidelight approximately 1000mm wide), each double door (single swing) in two equal leaves, each leaf with transome in two sections with fixed panes, frame around door units, size 4600 x 2100mm high overall (SF10; SF11)	No	2		
21	Two double door and centre sidelight assembly, in three sections with two mullions, centre sidelight unit with transome in two sections with fixed panes (sidelight approximately 800mm wide), each double door (single swing) in two equal leaves, each leaf with transome in two sections with fixed panes, frame around door units, size 4430 x 2100mm high overall (SF12; SF13)	No	2		
22	Double sliding door and two sidelights assembly, in three sections with two mullions, each sidelight unit with transome in two sections with fixed panes (each sidelight approximately 1465mm wide), double sliding door in two equal leaves, each leaf with transome in two sections with fixed panes, frame around sliding door unit, size 4770 x 2100mm high overall (SF14)	No	2		
23	Single door and three sidelight assembly, in four sections with three mullions, sidelight units with transome in two sections with fixed panes (approximately 1187mm wide), door (single swing) with transome in two sections with fixed panes, frame around door unit, size 4500 x 2100mm high overall (SF05; SF08)	No	2		
<u>HOT DIP GALVANISED PRESSED STEEL DOOR LININGS</u>					
<u>1,6mm Thick single rebated linings suitable for half brick walls, fitted with and including three Dorma DBB-SS-009 or equivalent two ball bearing butt hinges securely screwed on:</u>					
24	Lining for door size 813 x 2032mm high	No	5		
Carried to Summary				R	
Bills of Quantities Bill No. 11 METALWORK					

<u>1,6mm Thick single rebated linings suitable for one brick walls, fitted with and including three Dorma DBB-SS-009 or equivalent two ball bearing butt hinges securely screwed on:</u>					
25	Lining for door size 813 x 2032mm high	No	2		
<u>1,6mm Thick single rebated linings suitable for 270mm hollow walls, fitted with and including three Dorma DBB-SS-009 or equivalent two ball bearing butt hinges securely screwed on:</u>					
26	Lining for door size 813 x 2032mm high	No	2		
<u>HOT DIP GALVANISED STEEL POSTS, ETC.</u>					
27	100 x 100 x 6mm (16,74kg/m) Hollow section post	t	1.12		
28	280 x 280 x 12mm Thick baseplate four times holed for and secured with and including 10mm diameter x 75mm long expansion bolts	No	22		
<u>HOT DIP GALVANISED STEEL SECURITY GATES</u>					
<u>Security gates complete including building in securely as required:</u>					
29	Framed and welded single gate assembly formed of 50 x 50 x 2mm thick hollow section outer frame, mitred and welded at corners, filled in with 10 x 10mm tubular inserts fitted diagonally at 45 degrees at 100mm centres, all mitred and welded to outer frame, including 120mm diameter opening for and fitted with 12mm diameter sliding bolt with small handle in centre of one stile, opening formed of 10 x 10mm tubular framing shaped circularly and welded on, gate fitted with and including two heavy duty hinges bolted to brickwork, including setting up inside opening, adjusting and securing, size 994 x 2150mm high overall	No	4		
<u>YARD GATES</u>					
Carried to Summary				R	
Bills of Quantities Bill No. 11 METALWORK					

<u>Cochrane or equivalent:</u>					
30	Pedestrian gate consisting of 50 x 50 x 2mm hollow section outer framing and one mullion, all mitred and welded at intersections, internal 30 x 4mm flat section welded onto inside of all outer framing, one cut-out size 120 x 200mm high formed of outer framing and flat section as described above, filled in with 3,5mm diameter horizontal and vertical high tensile wires, galvanised with marine fusion bond coating with aperture size 76,2 x 50mm and reinforcing V-section ribs, cut to size and secured tautly around all edges to flat section with 4mm diameter self tapping screws 30mm long at 100mm centres all around, complete with 500 x 800mm high unreinforced concrete (15MPa/19mm) beam, with 5 - 45mm tapering hot dip galvanised (marine fusion bond coating - acid modified) gate posts 2400mm high, sealed with UV stabilized polymer cap, including locking recess mechanism with sealed end caps and 30 x 250mm long angle section base anchors, complete with required vandal resistant bolts and clamping plates, nuts and washers for fixing to gate complete with 300 x 300 x 5mm baseplate cast into concrete base complete with and including all excavations, filling, etc. one heavy duty brass padlock, etc. size 1000 x 2100mm high overall	No	2		
31	Ditto size 2000 x 2100mm high overall	No	1		
<u>SUNDRIES</u>					
<u>CTM or equivalent pivot shower doors:</u>					
32	Chrome Extendable 800 - 1020 pivot type shower door unit with and including 5mm thick tempered frosted glazing, fixed in accordance with the manufacturer's instructions	No	4		
<u>Hot dip galvanised slatted seating support brackets:</u>					
33	Triangular shaped support bracket to timber slatted seating (elsewhere measured), formed of 45 x 45 x 5mm angle sections, all mitred and welded at intersections, vertical leg three times holed for and bolted to wall with and including 8 x 50mm galvanised rawlbolts, support bracket size 460mm wide x 265mm high	No	16		
Carried to Summary				R	
Bills of Quantities Bill No. 11 METALWORK					

[illegible]

Item No		Quantity	Rate	Amount R
	<u>BILL No. 12</u>			
	<u>PLASTERING</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>SCREEDS</u>			
	<u>3:1 Cement screed (SANS 2001) steel trowelled on concrete:</u>			
1	30mm Thick on floors and landings	m ²	728	
	<u>TAL Screedmaster or equivalent self-levelling screed applied in accordance with the manufacturer's instructions:</u>			
2	3 - 8mm Thick on concrete	m ²	194	
	<u>SPECIALIST EPOXY FLOOR FINISHES</u>			
	All specialist floor coverings are to be executed in strict accordance with the manufacturer's instructions			
	<u>12mm Thick high impact epoxy flooring on epoxy primer to concrete substrate and sealed with appropriate sealer in accordance with the manufacturer's instructions:</u>			
3	On floors	m ²	8	
	<u>Coved skirting to epoxy floor areas:</u>			
4	150mm High coved skirting with and including 25mm diameter cove former at junction of floor and wall	m	10	
	<u>GRANOLITHIC</u>			
	<u>Untinted granolithic on concrete:</u>			
5	40mm Thick on floors and landings	m ²	4	
6	20 x 100mm High angle rounded skirting	m	2	
	<u>INTERNAL PLASTER</u>			
	Carried to Summary			R
	Bills of Quantities Bill No. 12 PLASTERING			

4:1 Cement plaster (SANS 2001) steel trowelled on brickwork/concrete:

7	On walls	m ²	1 407		
8	On narrow widths	m ²	77		
9	On sides of beams	m ²	20		
10	On sides of isolated beams	m ²	44		
11	On soffits of beams in narrow widths	m ²	20		

EXTERNAL PLASTER**5:1 Cement plaster (SANS 2001) wood floated on brickwork/concrete:**

12	On walls	m ²	94		
13	On narrow widths	m ²	8		

Carried to Summary

R

Bills of Quantities
Bill No. 12
PLASTERING

Section No. 1

Bills of Quantities

Bill No. 12

PLASTERING

COLLECTION PAGE**Page
No****Amount
R**

Total Brought Forward from Page No.

75

Total Brought Forward from Page No.

76

Carried Forward to Section Summary

R

Bills of Quantities

Bill No. 12

PLASTERING

Item No		Quantity	Rate	Amount R
	<u>BILL No. 13</u>			
	<u>TILING</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>WALL TILING</u>			
	<u>600 x 300 x 7,5mm Thick gloss white ceramic tiles fixed to plaster with approved tile adhesive, 3mm wide continuous joints at ends pointed with light grey epoxy grout:</u>			
1	On walls	m ²	73	
2	On walls in narrow widths	m ²	2	
	<u>600 x 300 x 7,5mm Thick matt white ceramic tiles fixed to plaster with approved tile adhesive, 3mm wide continuous joints in both directions pointed with white/black epoxy grout:</u>			
3	On walls	m ²	363	
4	On walls in narrow widths	m ²	14	
	<u>600 x 300 x 10mm Thick Titan FIJI or equivalent light grey polished porcelain tiles fixed to plaster with approved tile adhesive, 3mm wide continuous joints in both directions, pointed with light grey anti-fungicidal grout:</u>			
5	On walls	m ²	77	
6	On walls in narrow widths	m ²	12	
	<u>FLOOR TILING</u>			
	<u>600 x 600 x 10mm Thick Titan FIJI or equivalent porcelain tiles in square patterns of Light Grey and Dark Grey full tiles (elsewhere measured), fixed with and including approved adhesive to screed (elsewhere measured), including flush pointing with approved light grey grout:</u>			
7	On floors	m ²	529	
	Carried to Summary			R
	Bills of Quantities			
	Bill No. 13			
	TILING			

8	Extra over 600 x 600 x 10mm Titan FIJI Light Grey tiles on floors for 1200 x 600 x 10mm Titan FIJI Dark Grey tiles	No	28		
9	Light Grey on walls cut to 100mm high skirting	m	392		
	<u>Sundries</u>				
10	Polysulphide movement joint between tiles or between tiles and wall (Provisional)	m	648		
	<u>300 x 300 x 6mm Thick mosaic sheet comprising 48 x 48mm Light Grey tiles, fixed to cement screed with membrane reinforced acrylic waterproof compound:</u>				
11	On floors to falls, including cutting to fit	m ²	4		
	<u>Sundry cutting and fitting to all types of tiling:</u>				
12	Fair cutting and fitting around pipe not exceeding 50mm diameter	No	64		
13	Fair cutting and fitting around pipe exceeding 50mm not exceeding 110mm diameter	No	45		
14	Fair cutting and fitting around WC pedestal	No	30		
	<u>SUNDRIES</u>				
	<u>Kirk or equivalent:</u>				
15	8 x 8mm Code SQE120 stainless steel square edge trim	m	117		
16	3mm Thick Code AFB380 flat bar	m	17		
17	30 x 30mm Code STICP300 stainless steel tile in corner protector	m	86		
18	50mm Wide Code STRC100 stainless steel access ramp	m	57		
	<u>Genesis or equivalent:</u>				
19	40mm Wide Code LPS400 stainless steel listello wall trim	m	207		
Carried to Summary				R	
Bills of Quantities					
Bill No. 13					
TILING					

Section No. 1

Bills of Quantities

Bill No. 13

TILING

COLLECTION PAGE**Page
No****Amount
R**

Total Brought Forward from Page No.

78

Total Brought Forward from Page No.

79

Carried Forward to Section Summary

R

Bills of Quantities

Bill No. 13

TILING

Item No		Quantity	Rate	Amount R
	<u>BILL No. 14</u>			
	<u>PLUMBING & DRAINAGE (PROVISIONAL)</u>			
	<u>BILL No. 1: PLUMBING & DRAINAGE</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>uPVC pipes and fittings</u>			
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.			
	Soil, waste and vent pipes and fittings shall be solvent weld jointed.			
	<u>Copper pipes</u>			
	Pipes shall be hard drawn and half-hard pipes of the class stated. Tenderers are to note that Class 1 piping will not be allowed on this project.			
	Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-siphon pipes, capillary solder fittings and compression fittings shall be of an approved type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground.			
	<u>Fixing of pipes</u>			
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls, etc. casting in, building in or suspending not exceeding 1m below suspension level.			
	<u>Disinfection of water pipework</u>			
	All pipework is to be disinfected in accordance with SABS 1200L.			
	Carried to Summary			R
	Bills of Quantities Bill No. 14 PLUMBING AND DRAINAGE			

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster.

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary.

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings.

Excavation and filling

Excavation and backfilling must be done using hand held tools only.

Flexible connectors

Tenderers are to allow for the pricing of flexible connectors to all instances where deemed necessary. No extra will be entertained in this regard.

Laying, backfilling, bedding, etc. of pipes

Where no manufacturer's instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium pressure pipelines LD : Sewers LE : Stormwater drainage.

Carried to Summary

Bills of Quantities
Bill No. 14
PLUMBING AND DRAINAGE

R

Internal water supplies

Prices for all piping laid in ground, inspection chambers, etc. shall include for excavations, keeping free of water, distributing surplus material on site (carting away has been separately measured) and backfilling in selected material (imported fill where required will be separately measured).

Holes, chases, etc. are deemed to be included in the descriptions of the pipework.

Testing of installations/reticulation

The Contractor is to allow for testing of the internal water supply and fire supply installations per building as this will be completed as per the sectional completion requirements, as elsewhere described.

SANITARY PLUMBING

uPVC piping in accordance with SANS 967, including all straight couplings, cutting and waste, etc.:

1	40mm Pipe	m	5
2	50mm Pipe	m	109
3	110mm Pipe	m	92
4	50mm Pipe chased into walls	m	12
5	50mm Pipe laid in filling under floors	m	145
<u>Extra over uPVC piping for the following fittings:</u>			
6	40mm Bend	No	1
7	50mm Bend	No	109
8	110mm Bend	No	23
9	110mm Pan connector	No	23
10	50 x 40mm Reducer	No	1
11	40mm Access bend	No	1
12	50mm Access bend	No	38

Carried to Summary

R

Bills of Quantities
Bill No. 14
PLUMBING AND DRAINAGE

13	110mm Access bend	No	23
14	40mm Access junction	No	1
15	50mm Access junction	No	35
16	110mm Access junction	No	15
17	110 x 50mm Access reducing junction	No	1
18	50mm Two-way vent valve	No	1
19	110mm Two-way vent valve	No	23

Testing sanitary plumbing installations to the following buildings:

20	Visitor's Centre	Item
21	Staff Facility	Item
22	Guard House	Item

WATER SUPPLY

Polycop or equivalent polypropylene piping, including chasing into brick walls where described:

23	15mm Pipe	m	4
24	15mm Pipe chased into walls	m	5
25	22mm Pipe	m	5
26	22mm Pipe chased into walls	m	6
27	28mm Pipe	m	6
28	35mm Pipe	m	5

Extra over Polycop pipes for brass compression fittings:

29	15mm Pipe fittings	No	8
30	22mm Pipe fittings	No	10
31	28mm Pipe fittings	No	10

Carried to Summary

R

Bills of Quantities
Bill No. 14
PLUMBING AND DRAINAGE

	<u>Class 2 copper piping in accordance with SANS 460, including straight couplings, chasing into brick walls where described, cutting and waste, etc.:</u>				
32	15mm Pipe	m	17		
33	15mm Pipe chased into walls	m	237		
34	22mm Pipe	m	45		
35	22mm Pipe chased into walls	m	55		
36	28mm Pipe	m	91		
37	35mm Pipe	m	6		
38	42mm Pipe	m	6		
	<u>Extra over copper piping for the following Conex type fittings:</u>				
39	15mm Fittings	No	395		
40	22mm Fittings	No	84		
41	28mm Fittings	No	68		
42	35mm Bend	No	1		
43	42mm Bend	No	1		
44	35mm Elbow	No	1		
45	42mm Elbow	No	1		
46	35mm Reducer	No	1		
47	42mm Reducer	No	1		
48	35mm Tee	No	1		
49	42mm Tee	No	1		
50	35mm Reducing tee	No	1		
51	42mm Reducing tee	No	1		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 14				
	PLUMBING AND DRAINAGE				

Paper lagging:

52	Thermaflex protective tube around 15mm pipe and couplings	m	78		
53	Thermaflex protective tube around 22mm pipe and couplings	m	101		
54	Thermaflex protective tube around 35mm pipe and couplings	m	5		
55	Preformed fibreglass with canvas wrapping and metal cladding around 22mm pipe and couplings	m	5		

Sundries:

56	22mm Brass Fullway gate valve with non-rising spindle to SANS 776	No	5		
----	---	----	---	--	--

Testing water supply installations to the following buildings:

57	Visitor's Centre		Item		
58	Staff Facility		Item		
59	Guard House		Item		

SANITARY FITTINGS

Supply and fit the following sanitary fittings and equipment together with loose ancillary fittings supplied therewith, including unloading, storing, unpacking, hoisting or lowering as required, fixing and building into position, cutting all mortices and chases as required, cutting, brackets, clamps, etc. and connecting up pipework and handing over in perfect working order at completion

All gaps between fittings and/or tiles and walls to be filled with white silicone sealant

Franke or equivalent - Grade 304 (18/10) polished stainless steel:

60	Double bowl pot sink Model P2 Centre Code 2620483, wall brackets complete with suitable bolts fitted to wall complete with suitable sink wastes and plugs with 50mm rubber P-traps, complete with 2 pairs of 40mm diameter stainless steel round legs	No	1		
----	---	----	---	--	--

Carried to Summary

R

Bills of Quantities

Bill No. 14

PLUMBING AND DRAINAGE

61	Wall bench Code 2620122 size 2400 x 650 x 950mm high, including solid under shelf	No	1		
	<u>Vaal or equivalent:</u>				
62	Hibiscus Code 772402 single flush vitreous china wall hung WC pan with white seat and cover Code 8531Z0 complete	No	6		
63	Urban Code 772562 compact close coupled rim washdown pan and matching top dual flush cistern complete with lid, fitments, quality soft-close seat and cover with and including floor brackets complete	No	14		
64	Pearl Code 7300SC semi-close coupled open rim washdown pan and matching CP side flush cistern complete with lid, fitments, quality soft-close seat and cover with and including floor brackets complete	No	3		
65	Midi Weaver Code 706003 wall hung wash hand basin size 450 x 350mm, with taphole and overflow complete with installation kit Code 8448Z0 without pedestal	No	10		
66	Iceberg Code 703400 vanity basin size 420 x 420mm fixed to cupboard (elsewhere measured) with securing clips and sealed with silicone adhesive along edges including waste fitting (elsewhere measured) complete with plumbing kit Spazi F/1 Code 1120166437	No	2		
67	Bantam Code 703103 wall hung wash hand basin size 455 x 290mm, with two tapholes and overflow complete with installation kit Code 8448Z0 without pedestal	No	1		
68	Hibiscus Code 702303 wall hung wash hand basin size 510 x 405mm, with taphole and overflow complete with installation kit Code 8448Z0 without pedestal	No	3		
69	Hibiscus Code 702303 wall hung wash hand basin size 510 x 405mm, with taphole and overflow complete with installation kit Code 8448Z0 with and including classic floor pedestal	No	7		
70	Lavatera Code 705426 vitreous china white top inlet wall mounted urinal including 38mm chromium plated domical grating Code 8787Z0 and chromium plated spreader Code 7054Z1, fixed to wall with two hanger brackets Code 8127Z0 connected to flushmaster (elsewhere measured)	No	8		
71	Code VAA-705228 urinal division size 140 x 310 x 610mm bolted to wall	No	7		
Carried to Summary				R	
Bills of Quantities					
Bill No. 14					
PLUMBING AND DRAINAGE					

<u>Sannitree or equivalent:</u>					
72	Waterless freeflowing urinal valve installed in wall mounted urinal (elsewhere measured)	No	8		
<u>TAPS, VALVES, ETC.</u>					
<u>Cobra Watertech or equivalent:</u>					
73	20mm Cobra 208 brass hose bibtap with hose union secured to and including 50mm diameter galvanised steel stand pipe 1500mm long, including excavations, suitable concrete base, backfilling, etc.	No	3		
74	15mm Metsi Type 211-15 pillar tap	No	4		
75	15mm Type KM2-1011/2BC meter pillar tap	No	12		
76	15mm Protea PA-851 basin mixer plain	No	2		
77	15mm NM-851 basin mixer Code S-860	No	3		
78	15mm Protea PA-870 sink mixer	No	1		
79	15mm Code PA-856 shower mixer	No	4		
80	15mm Code KP2-6 shower head	No	4		
81	15mm Code 832-10 angle regulating valve with 350mm long service connection flexihose and capnut	No	50		
82	20mm Flushmater FJ6000 chrome urinal flush valve	No	8		
83	FJT 5.5 Urinal offset flushpipe	No	8		
84	15mm Code 832/350F angle regulating valve	No	31		
85	15mm Type 1080 Ball-o-Flo ballcock	No	79		
86	22mm Type 1080 Ball-o-Flo ballcock	No	8		
87	22mm Heavy duty gate valve Code 1003/125-22	No	2		
88	15mm In-line strainer restricting flow to 6 litres per minute	No	42		
<u>Hansgrohe or equivalent:</u>					
89	Euroeco Code 36265000 pillar tap	No	10		
Carried to Summary				R	
Bills of Quantities					
Bill No. 14					
PLUMBING AND DRAINAGE					

WASTE UNIONS, TRAPS, ETC.**Marley or equivalent:**

90	32 x 40mm Flexitrap butyl rubber deep seal P or S trap jointed to waste outlet fitting and to PVC pipe including coupling clamps, etc.	No	8		
----	--	----	---	--	--

Cobra Watertech or equivalent:

91	32mm Chromium plated 301-CP slotted basin waste union complete with 309-40 anti theft plug	No	8		
92	32mm Chromium plated 302-CP with no slot	No	2		
93	32mm Chromium plated 302-CP with click wasted slotted	No	13		
94	38mm Code 373 shower P trap and CP grating	No	4		

Hansgrohe or equivalent:

95	40mm Chromium plated basin bottle trap Code 52053000	No	13		
----	--	----	----	--	--

Splashworks or equivalent:

96	FD97 brass square floor drain size 97 x 97mm cover plate, with holes and including 50mm PVC trap	No	1		
97	GTS 500 size 500 x 500 x 450mm high under counter grease trap, including connection to preparation sink (elsewhere measured)	No	1		

HOT WATER GEYSERS, CIRCULATING PUMPS, ETC.

Kwikot 600 dual standard or equivalent hot water geysers complete with all necessary valves and connection to services, standard galvanised sheet drip tray with 100mm high upstand with top edge bent over all round, on and including suitable timber bearers and/or brackets where required, overflow pipes and connections, support frames with suitable bolts for fixing to walls, etc.:

98	200L Horizontally mounted in roof space	No	4		
----	---	----	---	--	--

Carried to Summary

R

Bills of Quantities
Bill No. 14
PLUMBING AND DRAINAGE

	<u>Direct close coupled evacuated tubes hot water solar system with electrical backup to be installed above roof as per manufacturer's specifications, complete with all necessary valves and connection to services and geyser (elsewhere measured):</u>				
99	20 Tube system	No	4		
	<u>Grunfos or equivalent:</u>				
100	Circulating pump with a 3 to 5 setting reostat switch for variable water flow from 0,03L/sec to 0,2L/sec. The pump inlet and outlet shall be sized according to the water reticulation piping. The pump shall be a single phase electrical type rated at 150W to 500W. Connection to all electrical and plumbing services to be included.	No	3		
	<u>Kwikboil or equivalent:</u>				
101	Kwikboil 5 white epoxy coated electrical on-tap boiling water dispenser fixed to wall, including connection to water supply	No	2		
	<u>FIRE APPLIANCES, ETC.</u>				
	<u>Fire hose reels, fire extinguishers, etc.:</u>				
102	Hydraulic fire hose reel unit (SANS 543 compliant) complete with 20mm diameter rubber hose 30m long, with fixed base and fitted with couplings, chromium plated stop valve, shut-off nozzle, service label, wall bracket and connecting to piping in standard weatherproof box mounted to wall	No	2		
103	100mm Glycerine filled pressure gauge complete with 15mm connecting pipe, fitted to 35mm copper piping (connection tee elsewhere measured)	No	2		
104	4,5kg Dry chemical powder fire extinguisher (SANS 1910 compliant) with wall mounted bracket fitted complete including suitable backing board	No	5		
105	5kg CO2 fire extinguisher (SANS 1910 compliant) with wall mounted bracket fitted complete including suitable backing board	No	1		
106	Standard fire blanket in standard package as supplied complete, with tabs hanging from the bottom of the package to release the fire blanket	No	1		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 14				
	PLUMBING AND DRAINAGE				

	<u>Directional fire escape signs (SANS 1186-5 compliant) size 190 x 384mm, consisting of photoluminescent silkscreen on PVC with white figure and arrow with border on green background, with the figure and arrow indicating the direction of escape to one side only with and including countersunk holed for and four times screwed to timber or brickwork with chromium plated dome headed screws:</u>				
107	E1 Pictogram for fire escape and directional arrow	No	1		
108	E2 Pictogram for fire escape and directional arrow	No	2		
109	E3 Pictogram for fire escape and directional arrow	No	2		
110	E21 Pictogram for directional arrow	No	20		
	<u>Directional fire escape signs (SANS 1186-5 compliant) size 190 x 384mm, consisting of photoluminescent silkscreen on PVC with white figure and arrow with border on green background, with the figure and arrow indicating the direction of escape double sided suspended from ceiling with steel hangers:</u>				
111	E1 + E2 Pictogram for fire escape and directional arrow	No	1		
112	F6 Pictogram for fire hose reel sign, fire extinguisher and directional arrow	No	4		
	<u>Warning symbolic safety signs (SANS 1186-5 compliant) size 190 x 384mm, consisting of photoluminescent silkscreen on PVC with red reverse engraving and border on white background, with the sign and symbol to one side only with and including countersunk holed for and four times screwed to door or brickwork with chromium plated dome headed screws:</u>				
113	E6 Pictogram for exit sign	No	6		
114	F13 Pictogram for fire extinguisher sign and directional arrow	No	5		
115	F14 Pictogram for fire hose reel sign and directional arrow	No	2		
116	F45 Pictogram for keep clear sign	No	2		
Carried to Summary				R	
Bills of Quantities					
Bill No. 14					
PLUMBING AND DRAINAGE					

<u>Warning symbolic safety signs (SANS 1186-5 compliant) size 190 x 578mm, consisting of photoluminescent silkscreen on PVC with red reverse engraving and border on white background, with the sign and symbol to one side only with and including countersunk holed for and four times screwed to door or brickwork with chromium plated dome headed screws:</u>			
117	F4 Pictogram for fire extinguisher and fire hose reel sign and directional arrow	No	2
<u>Warning symbolic safety sign (SANS 1186-5 compliant) size 450 x 450mm, photoluminescent silkscreen on PVC with red reverse engraving and border on white background, with the symbol to one side only with and including countersunk holed for and four times screwed to door or brickwork with chromium plated domeheaded screws:</u>			
118	Mandatory warning sign with various symbols	No	1
<u>WATER SUPPLY TO FIRE APPLIANCES</u>			
<u>Galvanised steel pipes (SANS 62):</u>			
119	25mm Pipe	m	50
<u>Extra on galvanised steel pipes for the following fittings:</u>			
120	15mm Fittings	No	4
121	25mm Fittings	No	12
<u>HDPE PE100 pressure pipes in accordance with SANS 4427, with spigots and sockets including all straight couplings, cutting and waste, etc.:</u>			
122	32mm Pipe laid in and including trenches not exceeding 1m deep	m	4
<u>Extra over HDPE pressure pipes for PE100 HDPE pressure type fittings:</u>			
123	32mm Elbow	No	2
124	32mm Equal tee	No	2
125	32 x 25mm HDPE to galvanised steel reducer	No	2
Carried to Summary			R
Bills of Quantities			
Bill No. 14			
PLUMBING AND DRAINAGE			

	<u>Stainless steel isolating valves in accordance with SANS 664, including all straight couplings, cutting and waste, etc.:</u>				
126	25mm Isolating valve PN16 with non-rising clockwise closing spindle	No	2		
	<u>Prepare and apply one coat Plascon galvanised iron cleaner, one coat Plascon galvanised iron primer and two coats Plascon Velvagio Satin paint on:</u>				
127	25mm Diameter galvanised steel pipe and fittings	m	30		
	<u>Sundries:</u>				
128	Testing the fire supply piping and fittings after completion of the entire installation (all external reticulation and to the various buildings)		Item		
	<u>Testing fire installation inside the following buildings:</u>				
129	Visitor's Centre		Item		
130	Staff Facility		Item		
Carried to Summary				R	
Bills of Quantities					
Bill No. 14					
PLUMBING AND DRAINAGE					

[illegible]

Item No		Quantity	Rate	Amount R
	<u>BILL No. 16</u>			
	<u>PAINTWORK</u>			
	The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 Series documents			
	<u>PAINTWORK TO NEW AREAS</u>			
	External elements to each block to be painted in a predetermined colour scheme.			
	<u>ON EXTERNAL FLOATED PLASTER</u>			
	<u>Prepare and apply one coat plaster primer and two coats exterior quality acrylic paint on:</u>			
1	Plastered walls	m ²	102	
2	Plastered cills	m ²	1	
3	Plastered sides of beams	m ²	64	
4	Plastered soffits of slabs and beams	m ²	20	
	<u>ON INTERNAL FLOATED PLASTER OR SKIMMED SURFACES</u>			
	<u>Prepare and apply one coat plaster primer and two coats interior quality low sheen acrylic paint on:</u>			
5	Plastered internal walls	m ²	1 472	
	<u>Prepare and apply one coat plaster primer and two coats Paintsmiths Earthcote Granite or equivalent paint on:</u>			
6	Plastered internal walls	m ²	19	
	<u>ON GYPSUM PLASTERBOARD</u>			
	<u>Prepare, prime all heads of nails and apply one coat plaster primer, one undercoat and two coats interior quality acrylic paint on:</u>			
7	Internal ceilings and/or bulkheads with skimmed joints	m ²	70	
	Carried to Summary			R
	Bills of Quantities			
	Bill No. 16			
	PAINTWORK			

8	Internal sloping ceilings with skimmed joints	m ²	45		
	<u>ON FIBRE CEMENT</u>				
	<u>Prepare and apply one coat undercoat and two coats interior quality acrylic paint on:</u>				
9	Internal ceilings, including priming heads of nails with galvanised steel primer	m ²	333		
	<u>Prepare and apply one coat undercoat and two coats exterior quality acrylic paint on:</u>				
10	External ceilings, including priming heads of nails with galvanised steel primer	m ²	208		
11	Fascias and barge boards	m ²	147		
	<u>ON GALVANISED STEEL</u>				
	<u>Clean down galvanised surfaces thoroughly with galvanised iron cleaner, apply one coat calcium plumbate primer and two coats eggshell enamel paint on:</u>				
12	Galvanised steel door linings	m ²	14		
13	Galvanised steel posts	m ²	26		
	<u>ON WOOD</u>				
	<u>Apply two coats wood primer on:</u>				
14	Backs of timber frames, linings, etc. not exceeding 300mm wide	m	152		
	<u>Prepare and apply one coat wood primer, one undercoat and two coats eggshell enamel paint on:</u>				
15	Timber skirtings, cornices, rails, etc. not exceeding 300mm girth	m	249		
	<u>Prepare and apply one coat pink wood primer and two coats eggshell enamel paint on:</u>				
16	Timber doors (both sides measured)	m ²	106		
17	Timber frames, cills, etc. not exceeding 300mm girth	m	92		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 16				
	PAINTWORK				

	<u>Prepare and apply two coats polyurethane wood varnish including sanding between coats on:</u>				
18	Timber shelving	m ²	31		
	<u>Prepare, stop and apply three coats Plascon Woodcare Suede Matt varnish, including sanding down between all coats, on:</u>				
19	Slatted timbers to benches (both sides measured)	m ²	14		
	Carried to Summary Bills of Quantities Bill No. 16 PAINTWORK			R	

[illegible]

Item No	Quantity	Rate	Amount R
<u>BILL No. 17</u>			
<u>EXTERNAL WORKS (PROVISIONAL)</u>			
The Tenderer is referred to the relevant Clauses in the separate Supplementary Preambles hereunder and Department of Public Works PW371 document and SANS 2001 series documents			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>EPWP Labour Intensive Items</u>			
<u>Labour-intensive refers to methods of construction and maintenance involving a mix of labour and machines without compromising on quality, where labour is the primary resource supported by plant and equipment for activities that cannot be feasibly done by labour only.</u>			
<u>Items in marked [LI] have been identified as labour-intensive items and EPWP guidelines apply.</u>			
<u>Payment for works identified in the Scope of Work as being labour-intensive [LI] shall only be made in accordance with the provisions of the contract if the works are constructed strictly in accordance with the provisions of the Scope of Work. Any non payment for such work shall not relieve the Contractor in any way from his obligations either in contract or in delict.</u>			
<u>Reinforcement</u>			
Reinforcement to include 30MPa concrete cover blocks to ensure correct cover to reinforcing.			
<u>Maintenance period</u>			
Attention is drawn to the maintenance period of twelve (12) months from Practical Completion.			
Carried to Summary			R
Bills of Quantities Bill No. 17 EXTERNAL WORKS			

Laying, backfilling, bedding, etc. of pipes

Pipes shall be laid in accordance with the following SANS 2001 Series documents:

Part DP1 : Pipe trenches
 Part DP2 Clause 4.3 : Medium-pressure pipelines
 Part DP4 Clause 4.3 : Sewers
 Part DP5 Clause 4.2.3 : Stormwater drainage

Excavations

No claim for rock excavation will be entertained unless the Contractor has timeously notified the Quantity Surveyor thereof prior to backfilling.

Class of excavations will be in accordance with SANS 1200D Clause 3.1. For the purpose of this project "Soft Rock" will have the same meaning as Intermediate excavations as defined in SANS 1200D Clause 3.1.

Boulder excavation definitions as stated in SANS 1200D will not apply.

Classification of soils and gravel is in accordance with SANS 1200M: 1996 Table 3A & 3B or TRH14.

Open face excavation is in accordance with SANS 2001: Part BE1.

Shoring to soil drainage piping and manholes

The tenderer must take note that the price for soil drainage piping and manhole installation must include for any temporary support that may be required to prevent the trenches or manhole excavations from collapse during installation. No additional cost will be entertained.

Carried to Summary

Bills of Quantities
 Bill No. 17
 EXTERNAL WORKS

R

Reinforced concrete work

All aspects of structural concrete work (plain and reinforced) for civil engineering and building construction shall be in accordance with the requirements of SANS 2001: Part CC1 and SANS 0155 (Accuracy in Building). Any discrepancies are to be referred to the Engineer.

1.1 Concrete mixes: All concrete mixing shall conform to SANS 2001: Part CC1. Specialised concrete applications will be referred to the Engineer. All aggregates used are to be approved by the Engineer. The water is to be clean as for human consumption.

1.2 Concreting: Concreting shall conform to SANS 2001: Part CC1. All dirt and trash shall be removed from the formwork before concreting. Concrete shall be thoroughly consolidated by means of tamping or vibration.

1.3 Maintaining reinforcement in position: The Contractor shall ensure that the correct concrete cover is maintained during the casting of concrete. In order to do this the Contractor shall provide suitable concrete or plastic cover blocks. All reinforcing is to be inspected and approved by the Engineer prior to casting of concrete. The Engineer shall be given 24 hours notice prior to any inspection required.

1.4 Cure: All new concrete shall be thoroughly cured by means of a resin-based curing compound or as approved by the Engineer.

Viewing of the site

Before submitting his tender, the Tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained.

Hot dip galvanising

Where hot dip galvanising is specified, it should be executed in accordance with SANS 121:2011 (ISO 1461:2009), unless otherwise described.

Carried to Summary

R

Bills of Quantities
Bill No. 17
EXTERNAL WORKS

PROTECTION OF INDIGENOUS TREES AND SHRUBS

- 1 Provide the Contingent Amount of R5 000.00 (Five Thousand Rand) for protection of indigenous trees and shrubs (the trees and shrubs will be identified by the Principal Agent on site). The work shall be measured and valued in accordance with the "Conditions of Contract".

Item

5 000.00

TEMPORARY BARRIERS, SCREENS, ETC.

Temporary hoarding including dismantling all hoarding, filling all post holes and compacting and levelling to adjacent ground levels, when work is completed:

- 2 Hoarding formed of 1,8m high galvanised steel weldmesh type fencing with 50 x 100mm apertures, secured to and including 60mm diameter treated gumpole fencing posts 2400mm long at 2m centres, gumpoles securely bedded 600mm deep in ground, medium grade shade cloth securely fastened to and including four rows of 4mm diameter straining wires, fastened to fencing and posts with 2mm diameter galvanised binding wire at 400mm centres, including all excavations, etc.

m

100

- 3 Pedestrian gate size 1000 x 1800mm high complete with all necessary posts, hinges, locking mechanism, etc.

No

1

- 4 Vehicular double gate size 4000 x 1800mm high complete with all necessary posts, hinges, locking mechanism, etc.

No

1

REMOVAL OF TREES, ETC.

Cut down and remove, grub up roots and fill in holes:

- 5 Multi-stem shrub exceeding 1000mm and not exceeding 1500mm girth [LI]
- 6 Ditto exceeding 1500mm and not exceeding 2000mm girth [LI]
- 7 Multi-stem tree exceeding 1000mm and not exceeding 1500mm girth [LI]
- 8 Ditto exceeding 1500mm and not exceeding 2000mm girth [LI]

No

2

No

1

No

1

No

1

Carried to Summary

R

Bills of Quantities
Bill No. 17
EXTERNAL WORKS

BULK AND OR OPEN FACE EXCAVATION, FILLING, ETC.**Site clearance, etc.:**

- 9 Remove topsoil and vegetation to a depth of 100mm and deposit on site in stockpiles where directed by the Engineer

m² 6 830**Open face excavation over sloping site:**

- 10 To form platforms, etc. and depositing excavated material in stockpiles on site

m³ 50**Extra over bulk excavation in earth for excavation in:**

- 11 Soft rock

m³ 20

- 12 Hard rock

m³ 10**Extra over all excavations for carting spoil off site to a location to be identified by the Contractor:**

- 13 Surplus material from stockpiles on site

m³ 30**Keeping excavations free of water:**

- 14 Keeping excavations free of all water other than subterranean water

Item

Selected fill material from stockpiles:

- 15 Over site compacted to a minimum of 90% Mod AASHTO dry density

m³ 683**Compaction of surfaces:**

- 16 Compaction of in-situ surfaces, etc. including scarifying for a depth of 150mm, breaking down oversized material and compacting to a minimum of 90% Mod AASHTO dry density

m² 6 830**Earth filling supplied by the Contractor to platforms, etc.:**

- 17 Over site of G7 material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 98% Mod AASHTO dry density

m³ 4 244**Carried to Summary**

R

Bills of Quantities
Bill No. 17
EXTERNAL WORKS

	<u>Prescribed density tests on filling:</u>				
18	Modified AASHTO density test	No	10		
	<u>Earth berm including forming to slope, as required:</u>				
19	Selected filling material from stockpiles deposited and lightly compacted to create earth berm	m ³	60		
	<u>PAVED MAIN PARKING BAYS/ROADWORKS</u>				
	All roadworks, unpaved roadworks, paving, walkways, etc. must be maintained throughout the whole contract period, whether or not sections have achieved completion or not. The whole of these elements must, additionally, be maintained for a period of twelve (12) months after Practical Completion.				
	<u>Site clearance, etc.:</u>				
20	Remove topsoil and vegetation to a depth of 100mm and deposit on site in stockpiles where directed by the Engineer	m ²	3 732		
	<u>Open face excavation over sloping site:</u>				
21	To form platforms, etc. and depositing excavated material in stockpiles on site	m ³	379		
	<u>Keeping excavations free of water:</u>				
22	Keeping excavations free of all water other than subterranean water		Item		
	<u>Selected fill material from stockpiles:</u>				
23	Over site compacted to a minimum of 90% Mod AASHTO dry density	m ³	765		
	<u>Earth filling supplied by the Contractor under roads, etc.:</u>				
24	G4 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 98% Mod AASHTO dry density	m ³	560		
25	G6 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 95% Mod AASHTO dry density	m ³	601		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

26	G9 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 93% Mod AASHTO dry density	m ³	689		
	<u>Compaction of surfaces:</u>				
27	Compaction of in-situ surfaces, etc. including scarifying for a depth of 150mm, breaking down oversized material and compacting to a minimum of 93% Mod AASHTO dry density	m ²	3 732		
	<u>Prescribed density tests on filling:</u>				
28	Modified AASHTO density test	No	10		
29	CBR test in accordance with Method A8 of TMH 1	No	10		
	<u>Precast concrete block road surfacing (SANS 1058):</u>				
	Precast concrete paving blocks shall be Class 25 Type S-A and able to withstand 30kN loads.				
	Paving is to be laid to herringbone pattern on 20mm (thickness after final compaction) clean river sand.				
	Clean sand is to be swept into joints between paving blocks after laying and forming to correct cambers, etc.				
	<u>203 x 102 x 80mm Thick precast concrete paving blocks (CEL Paving Products CEL 84-08CE), laid with butt joints on and including 20mm thick river sand bed with sand swept into joints (preparation of ground or filling elsewhere measured):</u>				
30	Paving to parking areas, etc. to falls and cross falls	m ²	3 732		
31	Fair circular cutting	m	393		
32	Junction of new interlocking paving with existing tarmac road	m	16		
	<u>Precast concrete finished smooth on all exposed surfaces, including bedding, jointing and pointing:</u>				
33	150 x 300mm High half battered kerb (SANS 927 figure BK4) with 150 x 150mm unreinforced concrete (15MPa/19mm) continuous haunching at back and bedded on unreinforced concrete (15MPa/19mm) bedding 50mm thick including excavation, backfilling, etc.	m	785		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

34	Ditto circular on plan not exceeding 4m radius	m	393		
35	300 x 125mm High tapered kerb (SANS 927 figure C1) with 150 x 150mm unreinforced concrete (15MPa/19mm) continuous haunching at back and bedded on unreinforced concrete (15MPa/19mm) bedding 50mm thick including excavation, backfilling, etc.	m	393		
36	Ditto circular on plan not exceeding 4m radius	m	197		
37	90 x 190mm High sunken kerb laid on and including unreinforced concrete (15MPa/19mm) bedding 50mm thick, including excavation, backfilling, etc.	m	30		
38	Transition kerb (to suit Figure BK4 kerb) size 150 x 250mm high x 914mm long, tapering to 100mm high at end, laid on and including unreinforced concrete (15MPa/19mm) bedding size 300 x 20mm thick, unreinforced concrete (15MPa/19mm) triangular haunching size 250 x 150mm at back, including levelling to suit adjacent surfaces, excavation, backfilling, etc.	No	10		
<u>White road marking paint to SANS 731 on concrete pavers:</u>					
39	Line 100 mm wide for parking bay	m	335		
40	Ditto but 500 mm wide to form standard zebra crossing	m	36		
41	Four letters arranged to read "STOP", size 1000 x 4000mm long overall	No	1		
42	Seven letters arranged to read "NO ENTRY", size 1000 x 4000mm long overall	No	1		
43	Supply and erect statutory "STOP" road sign type R1 size 610mm	No	1		
44	Supply and erect statutory "EXIT" road sign type R3 size 914mm	No	1		
45	Supply and erect statutory "NO ENTRY" road sign type R3 size 914mm	No	1		
<u>Yellow road marking paint to SANS 731 on concrete pavers:</u>					
46	Traffic arrow 4000mm long and 400mm wide	No	10		
47	GM6.3 wheelchair sign size overall 1200 x 1200mm	No	2		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

	<u>Hot dip galvanised welded and framed boom gate assembly, including setting up, fixing, adjusting, etc.:</u>				
48	100 x 50 x 3mm Hollow section post 5130mm long, with 460mm long section at one end filled with 40kg weight/infill weight, 12mm diameter bar with a total girth of 250mm, twice bent with two ends welded on, one end of post welded shut and setting up to balance correctly to vertical post assembly (elsewhere measured)	No	2		
49	Vertical post assembly, formed of set of two 180 x 70mm U-sections each 1425mm long, fixed web to web 70mm apart, with two 70 x 10mm plates, each 210mm long welded to both flanges of supporting posts, set up vertically as supporting posts to boom (elsewhere measured), fitted with and including 25mm diameter pivot pin securely welded on for 70mm width between two posts, forming hole through 100 x 50mm boom post (elsewhere measured), setting up two post assembly in and including 1000 x 1000 x 1000mm deep unreinforced concrete (25MPa/19mm) base, including excavations, etc.	No	2		
	<u>Entrance signs and lettering</u>				
50	Provide the Contingent Amount of R30 000.00 (Thirty Thousand Rand) for main entrance signage, information boards, arrows, lettering, etc.		Item		30 000.00
	<u>UNPAVED ROADWORKS</u>				
	<u>Site clearance, etc.:</u>				
51	Remove topsoil and vegetation to a depth of 100mm and deposit on site in stockpiles where directed by the Engineer	m ²	2 897		
	<u>Earth filling supplied by the Contractor under roads, etc.:</u>				
52	G6 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 95% Mod AASHTO dry density	m ³	635		
53	G9 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 93% Mod AASHTO dry density	m ³	635		
	Carried to Summary			R	
	Bills of Quantities Bill No. 17 EXTERNAL WORKS				

Compaction of surfaces:

54	Compaction of in-situ surfaces, etc. including scarifying for a depth of 150mm, breaking down oversized material and compacting to a minimum of 93% Mod AASHTO dry density	m ²	2 897		
----	--	----------------	-------	--	--

Prescribed density tests on filling:

55	Modified AASHTO density test	No	5		
56	CBR test in accordance with Method A8 of TMH 1	No	5		

EXTERNAL PAVING AND WALKWAYS**Site clearance, etc.:**

57	Remove topsoil and vegetation to a depth of 100mm and deposit on site in stockpiles where directed by the Engineer [LI]	m ²	2 216		
----	---	----------------	-------	--	--

Earth filling supplied by the Contractor under walkways, etc.:

58	G9 Material in accordance with SANS 1200DM in 150mm layers compacted to a minimum of 93% Mod AASHTO dry density [LI]	m ³	380		
----	--	----------------	-----	--	--

Compaction of surfaces:

59	Compaction of in-situ surfaces, etc. including scarifying for a depth of 150mm, breaking down oversized material and compacting to a minimum of 93% Mod AASHTO dry density [LI]	m ²	2 531		
----	---	----------------	-------	--	--

Prescribed density tests on filling:

60	Modified AASHTO density test	No	5		
----	------------------------------	----	---	--	--

Precast concrete block walkway surfacing:

Paving is to be laid to herringbone pattern on 20mm (thickness after final compaction) clean river sand

Clean sand is to be swept into joints between walkway stones after laying and forming to correct levels, etc.

Carried to Summary

R

Bills of Quantities
Bill No. 17
EXTERNAL WORKS

	<u>203 x 102 x 70mm Thick paving blocks (CEL Paving Products CEL 74-01KBOSCH) with coarse exposed aggregate, laid with butt joints on and including 20mm thick river sand bed with sand swept into joints (preparation of ground or filling elsewhere measured):</u>				
61	Paving to paving and walkway areas, etc. to falls and cross falls [LI]	m ²	2 020		
62	Fair circular cutting [LI]	m	1 156		
63	Provide the sum of R130,000.00 (One Hundred and Thirty Thousand Rand) for paving in circular or irregular patterns including all necessary preparation work, testing etc.		Item		130 000.00
	<u>200 x 200 x 70mm Thick paving blocks (CEL Paving Products CEL 73-01KBOSCH) with coarse exposed aggregate, laid with butt joints on and including 20mm thick river sand bed with sand swept into joints (preparation of ground or filling elsewhere measured):</u>				
64	Extra over for brick-on-edge paver laid in straight bond border [LI]	m	356		
65	Extra over for brick-on-edge paver laid in straight bond border including any fair cutting and waste between blocks, circular on plan exceeding 4m radius [LI]	m	1 156		
66	Sloping and stepped outer edges of stairs not exceeding 300mm high extreme [LI]	m	12		
	<u>STORMWATER RETICULATION/CHANNELS</u>				
	Precast concrete channels, etc. shall be manufactured in suitable lengths.				
	<u>Precast concrete open-ended channels including bedding, jointing and pointing:</u>				
67	300 x 100mm Open reinforced concrete stormwater channel with 75mm deep segmental channel, cast in 3m alternative panels on and including suitable 150mm subbase material, compacted to a minimum of 93% Mod AASHTO dry density with Type 245 fabric reinforcement, including all necessary excavations, formwork, compaction, grading, carting away, etc. [LI]	m	100		
68	Extra over 300 x 100mm stormwater channel for angle, intersection, end, dressing into sides of catchpits, etc.[LI]	No	15		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

69	Ditto for widening concrete to form spreader 1200mm wide extreme for a length of 1000mm, bedding three bricks on edge 55mm deep in spreader to falls including brushing concrete between bricks, forming 150 x 150mm downstand in ground, formwork, all necessary excavations, etc. [LI]	No	1		
<u>STORMWATER DRAINAGE</u>					
<u>Precast concrete Class 100D pipes (SANS 677):</u>					
70	450mm Pipe laid in and including trenches not exceeding 1m deep [LI]	m	6		
<u>Extra over excavation in earth for excavation in:</u>					
71	Soft rock [LI]	m ³	1		
72	Hard rock [LI]	m ³	1		
<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 93% Mod AASHTO dry density:</u>					
73	Backfilling to trenches, holes, etc.[LI]	m ³	2		
<u>Stormwater headwall:</u>					
74	Stormwater headwall 1060mm wide at stormwater inlet to connect to 450mm stormwater pipe (elsewhere measured), projecting for a length of 900mm to extreme width of 2200mm wide, comprising of 150mm thick reinforced concrete (20MPa/19mm) base with Type 245 fabric reinforcement with 230 x 230mm concrete edge to base at extreme side and 230mm brick wing walls on sides for a length of 1000mm, tapering down on two sides from 600mm to 285mm high complete with soldier course brickwork to top of inlet and wing walls with 10mm plaster on visible surfaces including all necessary excavating, compaction to base, carting away, etc.[LI]	No	2		
<u>Testing:</u>					
75	Allow for testing all external stormwater reticulation piping and components		Item		
<u>Sundries:</u>					
76	Unreinforced concrete (15MPa/19mm) encasing 100mm thick around 450mm horizontal stormwater pipe including all necessary formwork [LI]	m	6		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

EXTERNAL WATER RETICULATION DOMESTIC**uPVC Class 9 pressure pipes in accordance with SANS 966, with spigots and sockets including all straight couplings, cutting and waste, etc.:**

77	110mm Pipe laid in and including trenches not exceeding 1m deep	m	30
78	160mm Ditto	m	99
79	315mm Ditto	m	10

Extra over uPVC Class 9 pressure pipes for uPVC pressure type fittings:

80	110mm Bend	No	2
81	160mm Ditto	No	4
82	315mm Ditto	No	3
83	110mm Equal tee	No	1
84	160mm Ditto	No	3
85	315 x 110mm Reducer	No	4
86	160 x 63mm uPVC to HDPE reducer	No	2
87	160 x 32mm Ditto	No	4

HDPE PE100 pressure pipes in accordance with SANS 4427, with spigots and sockets including all straight couplings, cutting and waste, etc.:

88	25mm Pipe laid in and including trenches not exceeding 1m deep	m	248
89	32mm Ditto	m	133
90	50mm Ditto	m	515
91	63mm Ditto	m	70

Extra over HDPE pressure pipes for PE100 HDPE pressure type fittings:

92	25mm Fittings	No	20
93	32mm Elbow	No	5

Carried to Summary

R

Bills of Quantities
 Bill No. 17
 EXTERNAL WORKS

94	50mm Ditto	No	5		
95	63mm Ditto	No	5		
96	50 x 32mm Reducing elbow	No	4		
97	63 x 32mm Ditto	No	4		
98	40mm Equal tee	No	4		
99	63mm Ditto	No	4		
100	32 x 25mm Reducing tee	No	16		
101	50 x 25mm Ditto	No	6		
102	50 x 32mm Ditto	No	5		
103	63 x 25mm Ditto	No	4		
104	63 x 32mm Ditto	No	4		
105	63 x 50mm Ditto	No	4		
106	32 x 25mm Reducer	No	10		
107	50 x 25mm Ditto	No	4		
108	63 x 25mm Ditto	No	4		
109	63 x 32mm Ditto	No	4		
110	63 x 50mm Ditto	No	2		
	<u>Ancillary fittings to water meter assembly (all valves PN10 rated, flanges SANS 1123 Table 10):</u>				
111	110mm Diameter Class 9 uPVC pipe 1000mm long	No	1		
112	100mm Diameter flanged gate valve PN10	No	1		
113	100mm Diameter flexible flange adaptor to suit PVC pipe	No	4		
114	100mm Diameter flexible flange adaptor to suit MS pipe	No	1		
115	100mm Diameter flanged GMS reducer 150mm long	No	1		
116	100mm Diameter GMS flanged reducing tee 150mm long	No	1		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

117	100mm Diameter SG Iron flange adaptor PN10	No	1		
118	100mm Diameter flanged GMS spool piece 1000mm long, with puddle flange in centre	No	1		
119	100mm Diameter GMS spool piece 1000mm long, with puddle flange in centre flanged one end	No	1		
120	150mm Diameter x 100 mm flanged GMS reducer	No	1		
121	160mm Diameter SG iron flange adaptor PN10	No	1		
<u>Ancillary fittings to air valve assembly (all valves PN10 rated, flanges SANS 1123 Table 10):</u>					
122	25mm Diameter threaded air valve	No	5		
123	25mm S/S Stopcock female ended	No	5		
124	25mm Diameter GMS spool piece 500mm long, flanged to suit 50mm flange on one end and threaded the other	No	5		
125	50mm Diameter GMS flanged equal tee	No	5		
126	50mm Diameter adaptor to suit GMS flange and HDPE pipe	No	10		
<u>Ancillary fittings to gate valve assembly (PN10 rated, flanges SANS 1123 Table 10):</u>					
127	32mm Diameter female ended S/S gate valve	No	4		
128	50mm Diameter female ended S/S gate valve	No	3		
129	65mm Diameter female ended S/S gate valve	No	1		
130	300mm Diameter socketed gate valve	No	1		
<u>Ancillary fittings to scour valve assembly (PN10 rated, flanges SANS 1123 Table 10):</u>					
131	50mm Diameter female ended S/S gate valve	No	1		
132	50mm Diameter adaptor to suit GMS flange and HDPE pipe	No	3		
133	50mm Diameter GMS flanged equal tee	No	1		
134	100mm Diameter flexible flange adapter	No	1		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

135	100mm Diameter flanged gate valve	No	1		
136	250mm Diameter GMS scour tee	No	1		
137	250mm Diameter flexible coupling	No	2		
	<u>Extra over excavation in earth for excavation in:</u>				
138	Soft rock	m³	154		
139	Hard rock	m³	77		
	<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 93% Mod AASHTO dry density:</u>				
140	Backfilling to trenches, holes, etc.	m³	405		
	<u>Extra over all excavations for carting off site to a location to be identified by the Contractor:</u>				
141	Surplus material from excavations and stockpiles on site	m³	231		
	<u>Stainless steel isolating valves in accordance with SABS 664, including all straight couplings, cutting and waste, etc.:</u>				
142	110mm Isolating valve (PN16) with non-rising clockwise closing spindle enclosed in precast concrete valve chamber (elsewhere measured)	No	1		
	<u>Sundries:</u>				
143	Unreinforced concrete (15MPa/19mm) in thrust blocks at bends, tees, end caps, etc. including necessary extra excavation, formwork, etc.	m³	1		
144	Valve stopcock box size 150 x 402mm internally, not exceeding 1m deep, consisting of unreinforced concrete (25MPa/19mm) base 100mm thick, one brick wall all around, precast concrete cover slab on top, rebated for and fitted with and including 150 x 402mm cast iron stopcock box cover and frame complete with locking system, including excavations, backfilling, etc.	No	16		
145	Isolating valve box size 300 x 300mm internally not exceeding 1m deep, consisting of unreinforced concrete (25MPa/19mm) base 100mm thick, one brick walls all around, precast concrete cover slab on top, rebated for and fitted with and including 300 x 300mm cast iron type 11A stopcock box cover and frame complete with locking system, including excavations, backfilling, etc.	No	1		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

146	Municipal chamber for water meter, gate valve and non-return valve, size 1565 x 565mm internally not exceeding 1m deep, consisting of reinforced concrete (25MPa/19mm) base 150 mm thick with Type 193 fabric reinforcing, projecting 155mm at one end for a length of 965mm long, one brick wall all around, 150mm thick precast concrete cover slab on top, rebated for and fitted with and including 600 x 900mm light duty SANS Type 9E rectangular cover and frame complete with locking system, including excavations, backfilling, etc.	No	1		
147	Connection of new 110mm water connection pipe to existing municipal supply	No	1		
148	Headwall 1060mm wide projecting for a length of 900mm to extreme width of 2200mm wide, comprising of 150mm thick reinforced concrete (20MPa/19mm) base with Type 245 fabric reinforcement with 230 x 230mm concrete edge to base at extreme side and 230mm brick wing walls on sides for a length of 1000mm, tapering down on two sides from 600mm to 285mm high complete with soldier course brickwork to top of inlet and wing walls with 10mm plaster on visible surfaces including all necessary excavating, compaction to base, carting away, etc.	No	1		
	<u>Booster pumps:</u>				
149	Provide the Contingent Amount of R40 000.00 (Forty Thousand Rand) for booster pumps complete with all associated works required for testing, etc.		Item		40 000.00
150	Add for profit if required		Item		
	<u>Elster Kent Helix 4000 or equivalent water meter:</u>				
151	50mm Water meter including setting up in position, connecting to pipework, excavations, etc.	No	1		
	<u>Testing:</u>				
152	Allow for testing, operational manual and training for complete external water pipe system		Item		
	<u>EXTERNAL FIRE WATER RETICULATION</u>				
	<u>uPVC PE100 pressure pipes in accordance with SABS 966, with spigots and sockets including all straight couplings, cutting and waste, etc.:</u>				
153	90mm Pipe laid in ground including excavation not exceeding 1m deep	m	77		
	Carried to Summary			R	
	Bills of Quantities Bill No. 17 EXTERNAL WORKS				

154	110mm Ditto	m	18		
155	250mm Ditto	m	571		
156	315mm Ditto	m	104		
<u>Extra over uPVC pressure pipes for Class 12 uPVC pressure type fittings:</u>					
157	90mm Elbow	No	2		
158	110mm Ditto	No	1		
159	250mm Ditto	No	1		
160	315mm Ditto	No	1		
161	250 x 90mm Reducing elbow	No	1		
162	90mm Equal tee	No	1		
163	110 x 90mm Reducer	No	1		
164	250 x 90mm Ditto	No	1		
165	315 x 90mm Ditto	No	1		
<u>HDPe PN12 pressure pipes in accordance with SANS 4427, with spigots and sockets including all straight couplings, cutting and waste, etc.:</u>					
166	50mm Pipe laid in and including trenches not exceeding 1m deep	m	42		
<u>Extra over HDPe piping for the following HDPe PN12 fittings:</u>					
167	50mm Elbow	No	1		
168	90 x 50mm Reducer	No	1		
<u>Ancillary fittings to air valve assembly (all valves PN16 rated, flanges SANS 1123 Table 16):</u>					
169	25mm Diameter threaded air valve	No	5		
170	25mm Diameter GMS spool piece 500mm long, flanged to suit 50mm flange on one end and threaded the other	No	5		
171	50mm Diameter GMS spool piece 500mm long, flanged to suit 250mm flange on one end and threaded the other	No	1		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

172	50mm Diameter threaded air valve	No	1		
173	25mm S/S Stopcock female ended	No	5		
174	50mm S/S Stopcock female ended	No	1		
175	250 x 200mm Diameter GMS flanged reducing tee	No	5		
176	250mm Diameter GMS flanged reducing tee 300mm long	No	1		
177	250mm Diameter flexible flange adaptor to suit PVC/GMS	No	10		
178	300mm Diameter flexible flange adaptor to suit PVC/GMS	No	2		
	<u>Ancillary fittings to gate valve assembly (all valves PN16 rated, flanges SANS 1123 Table 16):</u>				
179	250mm Diameter socketed gate valve	No	1		
180	300mm Diameter socketed gate valve	No	3		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
181	Soft rock	m³	212		
182	Hard rock	m³	106		
	<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 93% Mod AASHTO dry density:</u>				
183	Backfilling to trenches, holes, etc.	m³	259		
	<u>Extra over all excavations for carting off site to a location to be identified by the Contractor:</u>				
184	Surplus material from excavations and stockpiles on site	m³	318		
	<u>Stainless steel isolating valves in accordance with SABS 664, including all straight couplings, cutting and waste, etc.:</u>				
185	110mm Isolating valve (PN16) with non-rising clockwise closing spindle enclosed in precast concrete valve chamber (elsewhere measured)	No	2		
	Carried to Summary				
	Bills of Quantities			R	
	Bill No. 17				
	EXTERNAL WORKS				

	<u>Galvanised steel pipes (SANS 92):</u>				
186	80mm Pipe vertically in concrete hydrant pedestal (elsewhere measured)	m	2		
187	80mm Pipe laid in ground including excavation not exceeding 1m deep, including coating pipe with one coat epoxy tar paint	m	1		
	<u>Extra on galvanised steel pipes for the following fittings:</u>				
188	80mm Nipple	No	2		
189	80mm Bend	No	1		
190	80 x 63mm Reducer	No	1		
191	110 x 80mm uPVC to galvanised steel reducing tee	No	1		
	<u>Fire hydrant assembly:</u>				
192	Hydrant and spindle to local municipal fire standard and connection assembly	No	1		
193	Hydrant key to suit local municipal fire standard	No	1		
194	100mm Diameter 2500kPa pressure gauge including tapped hole in steel pipe	No	1		
195	80 x 65mm KP2 right angle hydrant valve as SANS 1128 Part 1	No	1		
196	Unreinforced concrete (20MPa/19mm) in hydrant pedestal 900mm high cast around vertical pipe with bottom 300mm below ground, 300 x 300mm square at base and tapering to octagonal shaped top 200 x 200mm overall including necessary excavation, formwork and two coats of paint to exposed surfaces	No	1		
	<u>Sundries:</u>				
197	Unreinforced concrete (15MPa/19mm) in thrust blocks at bends, tees, end caps, etc. including necessary extra excavation, formwork, etc.	m ³	1		
Carried to Summary					R
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

198	Valve stopcock box size 150 x 402mm internally, not exceeding 1m deep, consisting of unreinforced concrete (25MPa/19mm) base 100mm thick, one brick wall all around, precast concrete cover slab on top, rebated for and fitted with and including 150 x 402mm cast iron stopcock box cover and frame complete with locking system, including excavations, backfilling, etc.	No	14		
199	Isolating valve box size 300 x 300mm internally not exceeding 1m deep, consisting of unreinforced concrete (25MPa/19mm) base 100mm thick, one brick walls all around, precast concrete cover slab on top, rebated for and fitted with and including 300 x 300mm cast iron type 11A stopcock box cover and frame complete with locking system, including excavations, backfilling, etc.	No	2		
200	Headwall 1060mm wide projecting for a length of 900mm to extreme width of 2200mm wide, comprising of 150mm thick reinforced concrete (20MPa/19mm) base with Type 245 fabric reinforcement with 230 x 230mm concrete edge to base at extreme side and 230mm brick wing walls on sides for a length of 1000mm, tapering down on two sides from 600mm to 285mm high complete with soldier course brickwork to top of inlet and wing walls with 10mm plaster on visible surfaces including all necessary excavating, compaction to base, carting away, etc.	No	1		
<u>Booster pumps:</u>					
201	Provide the Contingent Amount of R30 000.00 (Thirty Thousand Rand) for booster pumps complete with all associated works require for testing, etc.		Item		30 000.00
202	Add for profit if required		Item		
<u>Supply and install PVC sleeve pipes:</u>					
203	110mm Pipe	m	10		
204	250mm Ditto	m	10		
<u>Extra over PVC piping for the following fittings:</u>					
205	110mm Slow radius bend	No	2		
206	250mm Ditto	No	2		
<u>Testing:</u>					
207	Allow for testing, operational manual and training for complete external water fire pipe piping and equipment		Item		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

SOIL DRAINAGE**uPVC Class 51 solid wall piping with socketed ends (SANS 791):**

208	110mm Pipe raking to inspection eye	m	12
209	110mm Pipe laid in and including trenches not exceeding 2m deep	m	55
210	160mm Ditto	m	216
211	110mm Pipe laid in and including trenches exceeding 2m not exceeding 4m deep	m	45
212	160mm Ditto	m	324
213	160mm Pipe laid in and including trenches exceeding 4m and not exceeding 6m deep	m	90

Extra over uPVC Class 51 piping for:

214	50mm Vent cowl	No	4
215	110 x 50mm Reducer	No	4
216	110mm Bend	No	4
217	110mm Rodding eye	No	4
218	110mm Access slow bend	No	4

Grease traps, gulley traps, manholes, etc.:

219	110mm uPVC gulley trap and hopper with grid not exceeding 1000mm deep all set and encased in unreinforced concrete (20MPa/19mm) to form kerb, finished smooth with plaster	No	1
220	Precast concrete chamber for inspection eye not exceeding 2m deep, including precast concrete base size 450 x 450 x 100mm thick and 300 x 400mm cast iron cover and frame (SANS EN 124 Saint Gobain Hydrex), lid to have 'IE' letters cast in with mortar at top joint, overall size 450 x 450mm wide, including all excavations, backfilling, etc.	No	2

Carried to Summary

R

Bills of Quantities
Bill No. 17
EXTERNAL WORKS

221	Manhole 1000mm diameter and not exceeding 2m deep internally to invert level, formed of precast concrete chamber sections (SANS 1294) with interlocking joints sealed with Denzo seal strips internally and joints filled with 1:3 cement sand mixed chalked in, complete with cast in step irons at 250mm centres, with unreinforced concrete (35MPa/19mm) base 150mm thick projecting 220mm all round, with and including 230mm brickwork to a minimum height off 70mm above pipe ring soffit level all round with mortar ring to top, unreinforced concrete (15MPa/19mm) benching with 20mm thick HAC concrete topping on 1:6 benching slope, rebated for and fitted with Rocla or equivalent heavy duty concrete lid and frame (SANS 558), bedded in 1:3 cement mortar and sealed in tallow including all necessary channels and fittings, excavations, backfilling, holes through sides for pipes, etc. with and including 150mm layer G7 layer to bottom of concrete base compacted to a minimum of 93% Mod AASHTO dry density complete	No	3		
222	Ditto exceeding 2m and not exceeding 4m deep internally to invert level, ditto	No	4		
223	Ditto exceeding 4m and not exceeding 6m deep internally to invert level, ditto	No	1		
224	Grease and fat trap chamber size 2350 x 1520mm wide exceeding 2m and not exceeding 4m deep internally to invert level, complete with 110mm PVC inlet and outlet pipes and all connections, grease and fat trap collection basket, base, manhole covers, including all necessary channels and fittings, excavations, backfilling, holes through sides for pipes, etc. with and including 150mm layer G7 layer to bottom of concrete base compacted to a minimum of 93% Mod AASHTO dry density, complete	No	1		
	<u>Extra over trench and hole excavations in earth for excavation in:</u>				
225	Soft rock	m³	148		
226	Hard rock	m³	75		
	<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 93% Mod AASHTO dry density:</u>				
227	Backfilling to trenches, holes, etc.[LI]	m³	201		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

	<u>Extra over all excavations for carting off site to a location to be identified by the Contractor:</u>				
228	Surplus material from excavations and stockpiles on site	m ³	75		
	<u>Sundries:</u>				
229	Unreinforced concrete (15MPa/19mm) encasing around 110mm vertical or raking drain pipe to cleaning eye including all necessary formwork	m	12		
230	Connection of new 160mm PVC pipe to sewage package plant (elsewhere measured) complete	No	1		
	<u>Testing:</u>				
231	Testing complete drainage pipe system		Item		
	<u>RAINWATER TANKS</u>				
	<u>Jojo or equivalent rainwater tanks:</u>				
232	5000 Litre polyethylene rotomoulded vertical water storage tank complete with lid, fitted with and including 15mm brass bibtap (Type 108LK15) with suitable adaptor and setting in position on tank base (elsewhere measured), securely tying down with strap (elsewhere measured) (Note - tank to be filled with water before Practical Completion)	No	11		
233	Hole through top of tank lid for 100mm diameter pipe	No	11		
	<u>Gutterguard or equivalent rainwater tank filter:</u>				
234	240 x 190 x 190mm PVC leaf catcher filter complete with 110mm adaptor, first flush diverter, adjustable drainage plug, stainless steel leaf screen and insect screen mounted to water tank (water tank elsewhere measured)	No	11		
	<u>PLANTER WALLS</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
235	Trenches [LI]	m ³	78		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
236	Soft rock [LI]	m ³	16		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

237	Hard rock [LI]	m ³	8		
	<u>Risk of collapse of excavations:</u>				
238	Sides of trench and hole excavations not exceeding 1,5m deep [LI]	m ²	156		
	<u>Keeping excavations free of water:</u>				
239	Keeping excavations free of all water other than subterranean water [LI]		Item		
	<u>Extra over all excavations for carting off site to a location to be identified by the Contractor:</u>				
240	Surplus material from excavations	m ³	24		
	<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 95% Mod AASHTO dry density:</u>				
241	Backfilling to trenches, etc. [LI]	m ³	47		
	<u>Reinforced concrete (25MPa/19mm) cast against excavated surfaces:</u>				
242	Strip footings [LI]	m ³	20		
	<u>Test blocks:</u>				
243	Making and testing set of three 150 x 150 x 150mm concrete strength test cubes	No	3		
	<u>Mild steel reinforcement to structural concrete work:</u>				
244	8mm Diameter bars	t	0.60		
	<u>High tensile steel reinforcement to structural concrete work:</u>				
245	16mm Diameter bars	t	0.60		
246	10mm Diameter bars	t	0.60		
	<u>Brickwork of NFX bricks (14MPa nominal compressive strength) in Class II mortar:</u>				
247	One brick wall in two half brick skins, the two skins tied together with and including galvanised wire ties [LI]	m ²	130		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

	<u>Brickwork reinforcement:</u>				
248	75mm Wide reinforcement built in horizontally [LI]	m	295		
	<u>Weepholes, openings, etc.:</u>				
249	Form hole size 75 x 105mm thick through one brick wall faced both sides [LI]	No	55		
	<u>Bagging and sealing the outer face of the inner skin of hollow wall with 1:3 cement and sand mixture and seal with two coats bitumen emulsion waterproofing coating:</u>				
250	On walls [LI]	m ²	130		
	<u>Corobrik Platinum Satin FBX or equivalent clay face brickwork, manufactured in accordance with SANS 227:2007, including pointing with 6mm square recessed horizontal and vertical joints as the work proceeds:</u>				
251	Extra over ordinary brickwork for faced brickwork [LI]	m ²	130		
252	220mm Wide header course to top of one brick wall, bedded and jointed in cement mortar and pointed on top and both ends as described [LI]	m	104		
	<u>Subsoil drain:</u>				
253	110mm Diameter HDPE flexible slotted drainage pipe laid in 300 x 300mm drain, formed of 19mm crushed stone all wrapped in Geofabric material on top of 250 micron green polyethylene waterproof sheeting, 375mm wide [LI]	m	50		
	<u>FLAGPOLES & PLAQUE</u>				
	<u>Hot dip galvanised steel:</u>				
254	Flagpole 6m high formed of 60 mm diameter steel pole, with pole cap and rope ring, bolted with two 16mm diameter galvanised bolts to and including two steel support channels 100 x 50 x 1000mm long, welded to 80 x 80 x 6mm angle fixing cleats, each securely fixed to concrete base with two 16mm diameter steel rods 600mm long, embedded 600mm deep in ground in and including 800 x 600 x 700mm deep unreinforced concrete (25MPa/19mm) base, including all excavations in earth, backfilling and ramming, etc. and hoisting rope complete	No	1		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

<u>Sundries:</u>					
255	South African flag size 1800 x 1200mm high overall	No	1		
256	Provide the Contingent Amount of R10 000.00 (Ten Thousand Rand) for Plaque including fixing on site		Item		10 000.00
<u>YARD SCREEN WALL</u>					
<u>Excavation in earth not exceeding 2m deep:</u>					
257	Trenches [LI]	m ³	3		
<u>Extra over trench and hole excavations in earth for excavation in</u>					
258	Soft rock [LI]	m ³	1		
259	Hard rock [LI]	m ³	1		
<u>Risk of collapse of excavations</u>					
260	Sides of trench and hole excavations not exceeding 1,5m deep [LI]	m ²	15		
<u>Keeping excavations free of water</u>					
261	Keeping excavations free of all water other than subterranean water [LI]		Item		
<u>Extra over all excavations for carting off site to a location to be identified by the Contractor:</u>					
262	Surplus material from excavations [LI]	m ³	3		
<u>Unreinforced concrete (15MPa/19mm) cast against excavated surfaces:</u>					
263	Strip footings [LI]	m ³	3		
Carried to Summary				R	
Bills of Quantities					
Bill No. 17					
EXTERNAL WORKS					

	<u>Gabion cages comprising 50mm double twist hexagon woven mesh manufactured in accordance with SANS 1580, using galvanised mild steel wire to SANS 675 stitched closed, lined with AG double needle punched Geotextile at all mesh soil interfaces and filled with 100mm stone fill that must be non-friable, insoluble and hence granite, basalt, limestone or sandstone including necessary excavating, carting away, etc. all constructed to SANS 1200DK:</u>				
264	5150 x 350 x 2400mm High cage forming screen wall, secured to concrete strip footing (elsewhere measured) [LI]	No	1		
265	5240 x 350 x 2400mm High ditto (ditto) [LI]	No	1		
266	8640 x 350 x 2400mm High ditto (ditto) [LI]	No	1		
267	8730 x 350 x 2400mm High ditto (ditto) [LI]	No	1		
	<u>ENTRANCE SIGN WALL</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
268	Trenches [LI]	m ³	6		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
269	Soft rock [LI]	m ³	1		
270	Hard rock [LI]	m ³	1		
	<u>Risk of collapse of excavations</u>				
271	Sides of trench and hole excavations not exceeding 1,5m deep [LI]	m ²	18		
	<u>Keeping excavations free of water</u>				
272	Keeping excavations free of all water other than subterranean water [LI]		Item		
	<u>Extra over all excavations for carting off site to a location to be identified by the Contractor:</u>				
273	Surplus material from excavations [LI]	m ³	2		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

	<u>Earth filling obtained from the excavations and/or prescribed stockpiles on site, compacted to a minimum of 95% Mod AASHTO dry density</u>				
274	Backfilling to trenches, holes, etc. [LI]	m ³	4		
	<u>Unreinforced concrete (15MPa/19mm) cast against excavated surfaces:</u>				
275	Strip footings [LI]	m ³	2		
	<u>Gabion cage comprising 50mm double twist hexagon woven mesh manufactured in accordance with SANS 1580, using galvanised mild steel wire to SANS 675 stitched closed, lined with AG double needle punched Geotextile at all mesh soil interfaces and filled with 100mm stone fill that must be non-friable, insoluble and hence granite, basalt, limestone or sandstone including necessary excavating, carting away, etc. all constructed to SANS 1200DK:</u>				
276	8000 x 350 x 2400mm High cage forming entrance wall, secured to concrete strip footing (elsewhere measured) [LI]	No	1		
	<u>LANDSCAPING</u>				
	All landscaping areas/sections (grassed areas and landscaping detail) must be maintained throughout the whole contract period. The whole of the landscaping element must, additionally, be maintained for a period of six (6) months after Practical Completion of the project.				
	<u>Site clearance, etc.:</u>				
277	Remove topsoil and vegetation to a depth of 100mm and deposit on site in stockpiles where directed by the Engineer [LI]	m ²	7 104		
	<u>Open face excavation over sloping site:</u>				
278	To form grassed areas, etc. and depositing excavated material in stockpiles on site [LI]	m ³	355		
	<u>Extra over bulk excavation in earth for excavation in:</u>				
279	Soft rock [LI]	m ³	71		
280	Hard rock [LI]	m ³	36		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

	<u>Extra over all excavations for carting spoil off site to a location to be identified by the Contractor:</u>				
281	Surplus material from stockpiles on site [LI]	m ³	107		
	<u>Keeping excavations free of water:</u>				
282	Keeping excavations free of all water other than subterranean water [LI]		Item		
	<u>Selected fill material from stockpiles:</u>				
283	Over site compacted to a minimum of 90% Mod AASHTO dry density [LI]	m ³	100		
	<u>Cultivation and preparation of areas to be planted</u>				
	Do not proceed with installation of topsoil and planting mix until all work has been completed. Till the sub-soil into the bottom layer of topsoil or planting mix, loosen soil of sub grade to depth of 50 - 75mm. Spread 50mm layer of topsoil and till together. Add topsoil and planting mix over and till together. Do not compact. Add bonemeal, phosphate and fertilizer during soil installation.				
	<u>Topsoil supplied by the Contractor, including spreading and levelling:</u>				
284	In planter areas, grassed areas, etc. [LI]	m ³	100		
	<u>Compost, fertilizer, etc.:</u>				
285	Compost in planter areas, grassed areas, etc. [LI]	m ³	100		
286	5:1:5 Fertilizer for lawns [LI]	kg	50		
287	Super phosphate granular fertilizer for trees, shrubs, ground covers, etc.	kg	50		
288	Bonemeal fertilizer for trees, shrubs, ground covers, etc [LI].	kg	50		
	<u>19mm Crushed stone supplied by the Contractor in planter areas, etc.:</u>				
289	80mm Thick crushed stone layer over soil [LI]	m ²	30		
	<u>Grassing, ground covers, etc.:</u>				
290	Kikuyu sods approximately 900 x 450 x 50mm thick to general areas, etc. [LI]	m ²	7 104		
	Carried to Summary			R	
	Bills of Quantities				
	Bill No. 17				
	EXTERNAL WORKS				

291	<u>Maintenance:</u>	Item			
	Maintenance of grassed areas (total area approximately 7100m2) including regularly weeding and irrigating as necessary [LI]				
Carried to Summary					
Bills of Quantities Bill No. 17 EXTERNAL WORKS					

Section No. 1		
Bills of Quantities		
Bill No. 17		
EXTERNAL WORKS		
<u>COLLECTION PAGE</u>		
	Page No	Amount R
Total Brought Forward from Page No.	100	
Total Brought Forward from Page No.	101	
Total Brought Forward from Page No.	102	
Total Brought Forward from Page No.	103	
Total Brought Forward from Page No.	104	
Total Brought Forward from Page No.	105	
Total Brought Forward from Page No.	106	
Total Brought Forward from Page No.	107	
Total Brought Forward from Page No.	108	
Total Brought Forward from Page No.	109	
Total Brought Forward from Page No.	110	
Total Brought Forward from Page No.	111	
Total Brought Forward from Page No.	112	
Total Brought Forward from Page No.	113	
Total Brought Forward from Page No.	114	
Total Brought Forward from Page No.	115	
Total Brought Forward from Page No.	116	
Total Brought Forward from Page No.	117	
Total Brought Forward from Page No.	118	
Total Brought Forward from Page No.	119	
Total Brought Forward from Page No.	120	
Carried Forward		R
Bills of Quantities		
Bill No. 17		
EXTERNAL WORKS		

Item No		Quantity	Rate	Amount R
	<u>BILL No. 18</u>			
	<u>PROVISIONAL SUMS, ETC.</u>			
	The Tenderer is referred to the relevant Clauses in the Supplementary Preambles hereunder and Department of Public Works PW371 document			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with Clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.			
	Prime Cost amounts and Provisional Sums are nett. Prime Cost amounts include for delivery to site of all articles concerned.			
	Provisional Sums are for material and equipment supplied and installed complete by firms of specialists.			
	<u>Builder's work</u>			
	Builder's work in connection with specialist services is measured elsewhere in these Bills of Quantities.			
	<u>WORK BY CONTRACTOR</u>			
	BUDGETARY ALLOWANCES under this heading are for work to be executed by the Contractor and are to be used at the discretion of the Principal Agent and deducted in whole or in part if not required. The work shall be measured and valued in accordance with the "Conditions of Contract".			
	<u>DIRECTIONAL/INFORMATIONAL SIGNAGE ALLOWANCE</u>			
1	Provide the sum of R100 000.00 (One Hundred Thousand Rand) for Directional Signage	Item		100 000.00
	<u>GRANITE TOPS</u>			
2	Provide the sum of R50 000.00 (Fifty Thousand Rand) for granite tops to ablutions, etc.	Item		50 000.00
	Carried to Summary		R	
	Bills of Quantities Bill No. 18 PROVISIONAL AMOUNTS			

<u>BUILDER'S WORK IN CONNECTION WITH LANDSCAPING</u>				
3	Provide the sum of R100 000.00 (One Hundred Thousand Rand) for builder's work relating to landscaping and trail construction	Item		100 000.00
<u>SPECIALIST WORK</u>				
<u>ATTENDANCE</u>				
General attendance on Nominated Sub-contractors' work shall be deemed to include the following:				
1. Access to the site and places where the sub-contract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the Contractor;				
2. The provision of water and lighting and of single phase electric power to a position within 50 metres of the place where sub-contract work is to be carried out but excluding water, fuel and power for commissioning of the installation for which the sub-contractor shall be responsible;				
3. The provision of an area for the sub-contractor to establish office accommodation, temporary workshops and for the storage of plant and material;				
4. The use of erected scaffolding belonging to the Contractor, in common with others having the like right, whilst it so remains erected upon the site;				
5. The use of mess rooms, latrine, health and welfare facilities and the like, where provided;				
6. The use of site telephone and facsimile machine, where provided, subject to the payment by the sub-contractor for all his outgoing calls.				
<u>ELECTRICAL INSTALLATION BY NOMINATED/SELECTED SUB-CONTRACTOR</u>				
4	Provide the sum of R4 000 000.00 (Four Million Rand) for Electrical Installation complete by a Nominated/Selected Sub-contractor	Item		4 000 000.00
5	Add for profit	Item		
6	Allow for attendance	Item		
Carried to Summary			R	
Bills of Quantities Bill No. 18 PROVISIONAL AMOUNTS				

**COLD ROOM INSTALLATION BY
NOMINATED/SELECTED SUB-CONTRACTOR**

7	Provide the sum of R150 000.00 (One Hundred and Fifty Thousand Rand) for Cold Room Installation complete by a Nominated/Selected Sub-contractor	Item	150 000.00
8	Add for profit	Item	
9	Allow for attendance	Item	

**AIR CONDITIONING INSTALLATION BY
NOMINATED/SELECTED SUB-CONTRACTOR**

10	Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for Air Conditioning Installation complete by a Nominated/Selected Sub-contractor	Item	25 000.00
11	Add for profit	Item	
12	Allow for attendance	Item	

**EXTRACTOR INSTALLATION BY
NOMINATED/SELECTED SUB-CONTRACTOR**

13	Provide the sum of R90 000.00 (Ninety Thousand Rand) for Extractor Installation complete by a Nominated/Selected Sub-contractor	Item	90 000.00
14	Add for profit	Item	
15	Allow for attendance	Item	

**TURNSTILE INSTALLATION BY
NOMINATED/SELECTED SUB-CONTRACTOR**

16	Provide the sum of R330 000.00 (Three Hundred and Thirty Thousand Rand) for Turnstile Installation complete by a Nominated/Selected Sub-contractor	Item	330 000.00
17	Add for profit	Item	
18	Allow for attendance	Item	

MONETARY PROVISIONS**Carried to Summary**

R

Bills of Quantities
Bill No. 18
PROVISIONAL AMOUNTS

SEWAGE PACKAGE PLANT

19	Provide the sum of R640 000.00 (Six Hundred and Forty Thousand Rand) for the complete installation of an on-site Sewage Package Plant complete with all piping connections, necessary site works, testing, etc. complete	Item	640 000.00
----	--	------	------------

WATER STORAGE RESERVOIRS

20	Provide the sum of R550 000.00 (Five Hundred and Fifty Thousand Rand) for the complete installation of Water Storage Reservoirs complete with all piping connections, necessary site works, testing, etc. complete	Item	550 000.00
----	--	------	------------

BOREHOLE AND PUMP STATION

21	Provide the sum of R375 000.00 (Three Hundred and Seventy Five Thousand Rand) for the complete installation of Borehole Drilling and Pump Station complete with all pumps, piping connections, necessary site works, testing, etc. complete	Item	375 000.00
----	---	------	------------

IRRIGATION SYSTEM

22	Provide the sum of R140 000.00 (One Hundred and Forty Thousand Rand) for the complete installation of Irrigation System, piping connections, necessary site works, testing, etc. complete	Item	140 000.00
----	---	------	------------

CLO ALLOWANCE

23	Provide the sum of R72,000.00 (Seventy Two Thousand Rand) for the employment of a Community Liaison Officer (R6,000.00 per month for duration of contract plus sundries)	Item	72 000.00
----	--	------	-----------

H&S ALLOWANCE

24	Provide the sum of R180,000.00 (One Hundred and Eighty Thousand Rand) for the employment of a Health and Safety Officer on behalf of the Client	Item	180 000.00
----	---	------	------------

Carried to Summary

R

Bills of Quantities

Bill No. 18

PROVISIONAL AMOUNTS

[illegible]

Section No	FINAL SUMMARY	Page No	Amount R
1	Bills of Quantities	138	
	Subtotal		R
	<u>CONTINGENCIES</u>		
	Allow the sum of R1 600 000.00 (One Million Six Hundred Thousand Rand) for Contingencies to be used or deducted in full at the Principal Agent's discretion		R
			1 600 000.00
	<u>ESCALATION</u>		
	Allow the sum of R1 300 000.00 (One Million Three Hundred Thousand Rand) for Building Cost Escalation to be adjusted in terms of the JBCC Contract Price Adjustment Provisions		R
			1 300 000.00
	Sub Total		R
	ADD: Value added Tax at 15%		R
	TOTAL BUILDING WORKS INCLUDING VAT		R
	TOTAL CARRIED TO FORM OF TENDER		R

PART C: THE CONTRACT

Part C3: Scope of Work

C3.1 Description of the Works

C3.1.1 Employer's Objectives

The Employer's objective is to erect various buildings/structures at the **KWELERA NATIONAL BOTANICAL GARDEN, EAST LONDON**.

C3.1.2 Extent of the Works

The scope of works includes but is not limited to the following:

The following is a brief outline of the scope of works:

- Construction of a new single storey visitors' centre, approximately 514 m²
- Construction of a new single storey staff facility, approximately 280 m²
- Construction of a new single storey guard house, approximately 12 m²
- External construction works:
 - Two new platforms
 - Gravel roads
 - Brick paved roads and parking
 - Erection of a new boom gate entrance
 - Sewage package plant, water storage reservoir and a borehole with an automated irrigation system
- Specialist installations:
 - Electrical installation
 - Turnstile installation
 - Mechanical (HVAC, cold room)

The Contractor will be required to construct the works in conformity with design criteria specified in the Project Specification and/or shown on the drawings. The scope of work supplied must not be seen as exclusive and may be changed at any stage by the Employer.

C3.1.3 Location of the Works

The project is located at the Kweelera National Botanical Garden site near East London, Eastern Cape Province.

C3.2 Construction

C3.2.1 Construction Standards

The "Model Preambles for Trades (2008 Edition)" recommended and published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in the Bills of Quantities, with amendments as follows: References to "Architect" in the Model Preambles are to be read as "Principal Agent" shall apply to this contract.

This publication is available from The Association of South African Quantity Surveyors, P.O. Box 3527, Halfway House, 1685 - telephone (011) 315-4140, before a Tender is submitted.

The SANS 1200 Standardised Specification for Civil Engineering Construction prepared by Standards South Africa and specific amendments and additions to the SANS 1200 Standardized Specifications shall apply to this contract (for all Structural and Civil Work).

The SANS 1200 Standardised Specification publications are available from Standard South Africa, Private Bag X 191, Pretoria, 0001.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kweelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C3.2.2 Plant and Materials

C3.2.2.1 Plant and Materials Supplied by the Employer

None

C3.2.2.2 Materials, Samples and Shop Drawings

All materials are to be tested by a commercial laboratory as directed by the Engineer.

C3.2.3 Construction Equipment

C3.2.3.1 Requirements for Equipment

The Contractor is required to use plant and equipment that is sufficient for the contract.

C3.2.3.2 Equipment Provided by the Employer

None

C3.2.4 Existing Services

C3.2.4.1 Known Services

As-built information is unavailable at the time of Tender, the onus still lies with the main Contractor to ensure that no services are damaged during the construction phase.

C3.2.4.2 Treatment of Existing Services

Contractor to use caution.

C3.2.4.3 Use of Detection Equipment for the Location of Underground Services

At Principal Contractor's discretion.

C3.2.4.4 Damage to Services

It is the responsibility of the Principal Contractor to ensure that no services are damaged during the construction process. In case the known services are damaged, the Principal Contractor shall be responsible for the repair of the services to the original state before it was damaged, as well as all cost associated with the damaged service.

C3.2.5 Site Establishment

C3.2.5.1 Services and Facilities Provided by the Employer

None.

C3.2.5.2 Facilities Provided by the Contractor

The onus lies with the Principal Contractor to find a suitable camp site, approved by the Principal Agent.

C3.2.5.3 Storage

No requirements are specified.

C3.2.5.4 Other Facilities and Services

No requirements are specified.

C3.2.5.5 Vehicles and Equipment

No requirements are specified.

C3.2.5.6 Advertising Rights

It is the Principal Contractor's responsibility that no suppliers advertise on site. Any advertisement(s) from Suppliers shall be removed at the cost of the Principal Contractor.

C3.2.5.7 Notice Boards

The Principal Contractor is allowed to place a Notice Board on site. The design should be in accordance with

the EPWP type of Notice Board (refer EPWP Specification Document appended).

C3.2.6 Site Usage

The Contractors are not allowed to work outside the allowed working hours, as agreed with the Principal Agent.

C3.3 Management

C3.3.1 Planning and Programming

C3.3.1.1 General

This clause describes the requirements for the preparation, submission, updating and revision of the programme for the works. The requirements are in addition to or in expansion of the JBCC PBA clause [15.6].

The programme shall be used by the Contractor to plan and execute the works. The programme shall also be used by the Principal Agent to monitor progress and be the sole basis for the assessment of revisions of the date for Practical Completion.

The programme shall be produced by the Contractor as follows:

- a) A programme for the totality of the works shall be submitted to the Principal Agent for acceptance. If the Principal Agent does not accept such programme, it shall be revised and amended until it is accepted by the Principal Agent. This programme will then be regarded as the baseline programme.
- b) This baseline programme shall be updated with actual progress on a monthly basis, or any more frequent basis as necessitated by construction events. The Contractor may submit to the principal for acceptance revisions to the baseline programme.
- c) Acceptance by the Principal Agent of any programme submitted by the Contractor does not make such programme a contract document, nor does it mandate that the works shall be constructed strictly in accordance therewith. The Contractor at all times remains responsible for the construction of the works.

C3.3.1.2 Submission of Programme

Within 10 (Ten) working days of been given possession of the site, the Contractor shall submit to the Principal Agent for his review and acceptance a programme for the whole of the works showing the order in which the Contractor proposes to execute the works. This programme becomes the baseline programme upon acceptance by the Principal Agent. The baseline programme shall have regard to the contract completion dates, any other milestones and any restraints set out in the contract. Thereafter, if the actual progress does not conform with the baseline programme, the Principal Agent is entitled to require the Contractor to submit a revised programme showing the order of activities necessary to ensure completion of the works by the contract completion dates.

The Contractor shall supply the Principal Agent with an electronic copy of each programme, together with a print-out bar chart or tabular report in a pre-agreed format. All programmes shall be prepared and submitted using Microsoft Project software.

Within 10 (Ten) working days of the Contractor submitting a programme complete with all the information required by this clause to the Principal Agent for acceptance, the Principal Agent will accept the programme or state reasons for not accepting the programme. If such reasons are given, the Contractor shall take account of the reasons and resubmit the programme within 5 (five) working days.

If the Principal Agent fails to act the programme is deemed to be rejected.

C3.3.1.3 Default in submission of programme(s)

Should the Contractor fail to submit a programme for acceptance as the baseline programme or not update the programme as described above; the Principal Agent shall be entitled to withhold 25% of the amount due to the Contractor in interim payment certificates until the Contractor has complied with its obligations in this regard.

South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelela National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

C3.3.2 Health and Safety

C3.3.2.1 Health and Safety Specification

In terms of the Occupational Health and Safety Act (Act 85 of 1993) (OHSA) and the Construction Regulation 2014, the Employer must provide the Contractor with a Health and Safety Specification to which the Contractor must respond with a Health and Safety Plan for approval by the Employer.

The purpose of this Specification is to ensure that Principal Contractor entering into a contract with the Employer maintain an acceptable level of performance with regard to health and safety issues during the performance of the contract. In this regard, the OHSA Specification form an integral part of the Contract and the Principal Contractor shall ensure that their Sub-contractors and/or Suppliers comply with the requirements of this Specification.

C3.3.3 EPWP

C3.3.3.1 Employer's objectives

The Employer's objectives are to deliver public infrastructure using labour-intensive methods in accordance with EPWP Guidelines.

C3.3.3.2 Labour-intensive works

Labour-intensive works shall be constructed/maintained using local workers who are temporarily employed in terms of the scope of work.

C3.3.3.3 Labour-intensive competencies of supervisory and management staff

Contractors shall only engage supervisory and management staff in labour-intensive works that have completed the skills programme, including Foremen/Supervisors at NQF level 4 "National Certificate: Supervision of Civil Engineering Construction Processes" and Site Agent/Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications (see Appendix C) at NQF outlined in Table 1).

C3.3.3.4 EPWP Notice Board (separate board)

See example hereunder.



South African National Biodiversity Institute

Appointment of a contractor for the construction of a visitors' centre, gatehouse, staff facilities, external works, landscaping and installation of bulk electrical services for the South African National Biodiversity Institute (SANBI) at the Kwelera National Botanical Garden, Eastern Cape.

Bid No.: **SANBI: G379/2021**

PART C: THE CONTRACT

Part C4: Site Information

C4.1 Site Information

The site is located in the East London area, Eastern Cape Province, on Farm No. 1505, Road DR02731, Kwelera, East London.

