



REQUEST FOR QUOTATION

Terms of Reference

CONSTRUCTION OF AN ABLUTION FACILITY AND ROOF (CANOPY) AT VREDESVALLEI PRIMARY SCHOOL NEAR KAKAMAS IN THE NORTHERN CAPE

RFQ NO.

SP-AU-0055/2

REQUEST FOR QUOTATION

You are hereby invited to submit price quotation for:

CONSTRUCTION OF AN ABLUTION FACILITY AND ROOF (CANOPY) AT VREDESVALLEI PRIMARY SCHOOL NEAR KAKAMAS IN THE NORTHERN CAPE

RFQ NUMBER:	SP-AU-0055/2
ADVERTISEMENT DATE:	6 October 2026
COMPULSORY SITE CLARIFICATION MEETING DATE:	There will be no site clarification meeting
BID CLOSING DATE:	20 October 2026 at 11:00
RFQ DOCUMENT DELIVERY ADDRESS:	Email: infra.rfqs@sanparks.org
RFQ VALIDITY PERIOD:	90 days (commencing from the RFQ Closing Date)
TECHNICAL RELATED QUERIES	Name: Marius Reinhardt Email: marius.reinhardt@sanparks.org Telephone No: 082 796 9986
SCM RELATED QUERIES	Name: Esther Howard Email: esther.howard@sanparks.org Telephone: 083 791 4911

Bidders should ensure that bids are delivered timeously to the correct address. If the bid is late, it will not be accepted for consideration.

Bidders shall submit proposal responses in accordance with the prescribed manner of submission as specified above. Bids received after the time stipulated shall not be considered.

Where applicable, the successful bidder will be required to fill in and sign a written Contract Form (SBD 7).

Bidders are not allowed to contact any other SANParks staff in the context of this RFQ other than the indicated officials under SBD 1 or as indicated above.

NB: No proposal shall be accepted by SANParks if submitted in any manner other than as prescribed above.

PART A INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF THE SOUTH AFRICAN NATIONAL PARKS

BID NUMBER:	SP-AU-0055/2	CLOSING DATE:	20 October 2026	CLOSING TIME:	11:00
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DESCRIPTION	Construction of an ablution facility and roof (canopy) at Vredesvallei Primary School near Kakamas in the Northern Cape
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BID RESPONSE DOCUMENTS MAY BE DEPOSITED IN THE BID BOX SITUATED

VIA Email: infra.rfqs@sanparks.org

BIDDING PROCEDURE ENQUIRIES MAY BE DIRECTED TO		TECHNICAL ENQUIRIES MAY BE DIRECTED TO:	
CONTACT PERSON	Esther Howard	CONTACT PERSON	Marius Reinhardt
TELEPHONE NUMBER	083 791 4911	TELEPHONE NUMBER	082 796 9986
E-MAIL ADDRESS	esther.howard@sanparks.org	E-MAIL ADDRESS	marius.reinhardt@sanparks.org

SUPPLIER INFORMATION

NAME OF BIDDER					
POSTAL ADDRESS					
STREET ADDRESS					
TELEPHONE NUMBER	CODE		NUMBER		
CELLPHONE NUMBER					
E-MAIL ADDRESS					
VAT REGISTRATION NUMBER					
SUPPLIER COMPLIANCE STATUS	TAX COMPLIANCE SYSTEM PIN:		OR	CENTRAL SUPPLIER DATABASE No:	MAAA
ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE SERVICES OFFERED?	☐ Yes ☐ No [IF YES ENCLOSE PROOF]		ARE YOU A FOREIGN BASED SUPPLIER FOR THE SERVICES OFFERED?		☐ Yes ☐ No [IF YES, ANSWER THE QUESTIONNAIRE BELOW]

QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS

IS THE ENTITY A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?	☐ YES ☐ NO
DOES THE ENTITY HAVE A BRANCH IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE A PERMANENT ESTABLISHMENT IN THE RSA?	☐ YES ☐ NO
DOES THE ENTITY HAVE ANY SOURCE OF INCOME IN THE RSA?	☐ YES ☐ NO
IS THE ENTITY LIABLE IN THE RSA FOR ANY FORM OF TAXATION?	☐ YES ☐ NO

IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 2.3 BELOW.

PART B
TERMS AND CONDITIONS FOR BIDDING

1. BID SUBMISSION:
1.1. BIDS MUST BE DELIVERED BY THE STIPULATED TIME TO THE CORRECT ADDRESS. LATE BIDS WILL NOT BE ACCEPTED FOR CONSIDERATION.
1.2. ALL BIDS MUST BE SUBMITTED ON THE OFFICIAL FORMS PROVIDED (NOT TO BE RE-TYPED) OR IN THE MANNER PRESCRIBED IN THE BID DOCUMENT.
1.3. THIS BID IS SUBJECT TO THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000 AND THE PREFERENTIAL PROCUREMENT REGULATIONS, THE GENERAL CONDITIONS OF CONTRACT (GCC) AND, IF APPLICABLE, ANY OTHER SPECIAL CONDITIONS OF CONTRACT.
1.4. THE SUCCESSFUL BIDDER WILL BE REQUIRED TO FILL IN AND SIGN A WRITTEN CONTRACT FORM (SBD7).
2. TAX COMPLIANCE REQUIREMENTS
2.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS.
2.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS.
2.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA.
2.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID.
2.5 IN BIDS WHERE CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED; EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER.
2.6 WHERE NO TCS PIN IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED.
2.7 NO BIDS WILL BE CONSIDERED FROM PERSONS IN THE SERVICE OF THE STATE, COMPANIES WITH DIRECTORS WHO ARE PERSONS IN THE SERVICE OF THE STATE, OR CLOSE CORPORATIONS WITH MEMBERS PERSONS IN THE SERVICE OF THE STATE."

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

(Proof of authority must be submitted e.g. company resolution)

DATE:

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

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

Section 1: Name of enterprise:

Section 2: VAT registration number, if any:

Section 3: CIDB registration number, if any:

Section 4: CSD Number:

Section 5: 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 6: Particulars of companies and close corporations

Company registration number:

Close corporation number:

Tax reference number:

Section 7: SBD4 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

Section 8: SBD6 issued by National Treasury must be completed for each tender and be attached as a tender requirement.

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 it is 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 of 2004;
iii)	Confirms that no partner, member, director or other person, who wholly or partly exercises, or may exercise, control over the enterprise appears, 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
iv)	Confirms that the contents of this questionnaire are within my personal knowledge and are to the best of my belief both true and correct.

Name	Position	Signed

Enterprise name	Date

1. PURPOSE

The purpose of this RFQ is to appoint a service provider for the construction of an ablution facility and roof (canopy) at Vredesvallei Primary School near Kakamas in the Northern Cape.

2. BACKGROUND

South African National Parks (SANParks) is a public entity functioning under *National Environmental Management: Protected Areas Act 57 of 2003 (Act 57 of 2003)*; with the mandate to conserve; protect; control; and manage national parks and other defined protected areas and their biological diversity (Biodiversity). As a public entity, SANParks is also governed by the *Public Finance Management Act, Act 1 of 1999 (as amended by Act 29 of 1999)*, and it is listed as *Schedule 3 Part A: 25 public entities*.

3. SCOPE OF WORK

Construction of an ablution facility and roof (canopy) at Vredesvallei Primary School. Ablution and roof (canopy) plans and Bill of Quantities are separate documents, please ensure that you have received all documents:

1. Vredesvallei Ablution Building Plan
2. Vredesvallei Canopy Plan
3. Vredesvallei Bill of Quantities

3.1 LOCATION OF THE WORKS

The works are located at the Vredesvallei Primary School which is approximately 58 km from Kakamas in the Northern Cape Province.

GPS co-ordinates are as follows:

28°30'15.3"S

20°11'30.2"E

SITE MAP



3.2 ANTICIPATED CONSTRUCTION DURATION

It is anticipated that the Works are to be completed in 3 months. Provisional start date 1 November 2026 and completion date on 31 January 2027. Provision has been made for the Builder's Break, however it would be preferable to complete the works by the end of December 2026.

3.3 ELIGIBILITY CRITERIA

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 **2GB** or higher class of construction work, are eligible to submit tenders.

3.3 TECHNICAL SPECIFICATIONS

Technical specifications as listed in the Bill of Quantities.

4. PRICING SCHEDULE (See BoQ for detailed items)

APPOINTMENT OF A CONTRACTOR FOR THE CONSTRUCTION OF INFRASTRUCTURE AT VREDESVALLEI PRIMARY SCHOOL				
Item No	Item Description	Quantity	Unit Price	Price
1.	Construction of an ablution facility and roof (canopy) at Vredesvallei Primary School	1		
FULL BoQ TO BE COMPLETED AND SUBMITTED ALONG WITH RFQ DOCUMENT				
SUB-TOTAL				R
VAT @ 15% (if applicable)				R
GRAND TOTAL				R

5. COMPLIANCE AND GOVERNANCE VERIFICATION DOCUMENTS (Standard Bidding Documents)

*In this phase all proposals received will be verified for compliance and completeness of the submitted proposal per the set of **minimum requirements as listed below**. Service Providers who comply with the listed requirements progresses to the next phase.*

The verification during this phase is to assess the bid responses for purposes of verifying compliance with RFQ requirements, whereby a bidder may be disqualified if they do not fully comply which requirements as stipulated below:

- Completion of the Compulsory Enterprise Questionnaire
- Completion of the pricing schedule
- Submission of a quotation on the company letterhead
- Submission of fully completed SBD 1, 4, 6.1, accompanied by the original or certified B-BBEE Status Level Verification Certificate or B-BBEE Sworn Affidavit **IF NO POINTS CLAIMED ON SBD 6.1, NO POINTS WILL BE ALLOCATED**
- Submission of fully completed SBD7.2 (Contract Form)
- SARS Tax Compliance Statement PIN

6. CENTRAL SUPPLIER DATABASE INFORMATION

Bidders are required to be registered on the Central Supplier Database (CSD) of National Treasury. Only bidders registered on CSD will be eligible to participate in the RFQ.

7. EVALUATION CRITERIA AND WEIGHTING

The RFQ stipulated that the responses to be evaluated using the 80/20 preference points system in accordance with the PPPFA guidelines. Based on this system the points will be allocated as follows:

Criteria	Points
Price	80
Specific Goals/BEE	20
Total	100

8. EVALUATION FORMULA FOR PRICE

The following formula will be applied to calculate the scores:

Price Formula

The following PPPFA formula was used to evaluate the price proposals submitted by bidders, this formula was used because price was the only criterion that was scored i.e. the whole 80 points were allocated to price.

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

P_s = Points scored for price of the bid under consideration.

P_t = Rand value of bid under consideration.

$P_{\min}$ = Rand value of lowest acceptable bid

9. PROTECTION OF PERSONAL INFORMATION ACT, 4 OF 2013 (POPIA)

SANParks adheres to the Protection of Personal Information Act, 4 of 2013 (POPIA) requirements regarding personal information which came into effect 1 July 2021.

As SANParks, we are committed to protecting your privacy and ensuring that personal information collected is used properly, lawfully and transparently.

10. TIMELINES

Upon appointment the recommended supplier is expected to deliver the goods and services within 3 months of receipt of the purchase order. SANParks reserves the right to cancel the Purchase Order issued.

11. FINANCIAL PAYMENT

Payment will be made in accordance with the CIDB, invoices to be submitted within 21 days per claim period, after delivery of service rendered or goods delivered. Invoices will be remeasured in accordance with the Bill of Quantities and works completed.

12. FINAL AWARD

SANParks nominates the bidder with the highest combined score for the contract award subject to the bidder having supplied the relevant administrative documentation. SANParks reserves the right not to award to the highest points scorer in accordance with S 2(1) (f) of the Act (PPPFA).

BIDDER'S DISCLOSURE

1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

2. Bidder's declaration

2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest¹ in the enterprise, employed by the state? **YES/NO**

2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution? **YES/NO**

2.2.1 If so, furnish particulars:

.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract? **YES/NO**

2.3.1 If so, furnish particulars:

.....

3 DECLARATION

I, the undersigned, (name) in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect.

3.1 I have read and I understand the contents of this disclosure;

3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

¹ the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

- 3.3 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 consortium² will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.5 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.
- 3.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.
- 3.7 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.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....

Signature

.....

Date

.....

Position

.....

Name of bidder

² 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.

PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022

1. GENERAL CONDITIONS

1.1 The following preference point systems apply to invitations to tender:

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

1.2 To be completed by the organ of state

- a) The applicable preference point system for this tender is the 80/20 preference point system.
- b) The 80/20 preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

1.3 Points for this tender (even in the case of a tender for income-generating contracts) shall be awarded for:

- (a) Price; and
- (b) Specific Goals.

1.4 To be completed by the organ of state:

The maximum points for this tender are allocated as follows:

	POINTS
PRICE	80
SPECIFIC GOALS	20
Total points for Price and SPECIFIC GOALS	100

1.5 Failure on the part of a tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals with the tender will be interpreted to mean that preference points for specific goals are not claimed.

1.6 The organ of state reserves the right to require of a tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations, competitive tendering process or any other method envisaged in legislation;
- (b) **“price”** means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) **“rand value”** means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) **“tender for income-generating contracts”** means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) **“the Act”** means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

3.1. POINTS AWARDED FOR PRICE

3.1.1 THE 80/20 PREFERENCE POINT SYSTEMS

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

80/20

$$Ps = 80 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where

Ps = Points scored for price of tender under consideration

Pt = Price of tender under consideration

Pmin = Price of lowest acceptable tender

4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1 below as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
 - (a) an invitation for tender for income-generating contracts, that either the 80/20 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
 - (b) any other invitation for tender, that either the 80/20 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system, then the organ of state must indicate the points allocated for specific goals for both the 80/20 preference point system.

Table 1: Specific goals for the RFQ and points claimed are indicated per the table below.

Note to service provider: The service provider must indicate how they claim points for each preference point system. Points will be allocated according to the points claimed in the table below.

The specific goals allocated points in terms of this RFQ	Number of points allocated (80/20 system)	Number of points claimed (80/20 system) (To be completed by the service provider)
1) Percentage black ownership		
Persons historically disadvantaged on the basis of race with 51% or more black ownership	10	
2) Exempted Micro Enterprise		
Exempted Micro Enterprise (annual turn-over below R10 million)	10	
TOTAL MAXIMUM POINTS CLAIMED BY THE SERVICE PROVIDER	20	

NB: Bidders with less than 51% Black ownership and who are not EMEs can still submit a quotation but will not claim points for specific goals.

Note to service provider: If no points are claimed in the above table, zero points will be allocated during evaluation.

DECLARATION WITH REGARD TO COMPANY/FIRM

4.3. Name of company/firm.....

4.4. Company registration number:

4.5. TYPE OF COMPANY/ FIRM

- ☐ Partnership/Joint Venture / Consortium
- ☐ One-person business/sole propriety
- ☐ Close corporation
- ☐ Public Company
- ☐ Personal Liability Company
- ☐ (Pty) Limited
- ☐ Non-Profit Company
- ☐ State Owned Company

[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I 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 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 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
 - (a) disqualify the person from the tendering 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 tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted 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, if deemed necessary.

	
	SIGNATURE(S) OF TENDERER(S)
SURNAME AND NAME:	
DATE:	
ADDRESS:	
	
	
	

SBD 7.2

CONTRACT FORM - RENDERING OF SERVICES

THIS FORM MUST BE FILLED IN DUPLICATE BY BOTH THE SERVICE PROVIDER (PART 1) AND THE PURCHASER (PART 2). BOTH FORMS MUST BE SIGNED IN THE ORIGINAL SO THAT THE SERVICE PROVIDER AND THE PURCHASER WOULD BE IN POSSESSION OF ORIGINALLY SIGNED CONTRACTS FOR THEIR RESPECTIVE RECORDS.

PART 1 (TO BE FILLED IN BY THE SERVICE PROVIDER)

1. I hereby undertake to render services described in the attached bidding documents to **South African National Parks** in accordance with the requirements and task directives / proposals specifications stipulated in RfQ Number **SP-AU-0055/2** the price quoted. My offer remain binding upon me and open for acceptance by the Purchaser during the validity period indicated and calculated from the closing date of the bid.
2. The following documents shall be deemed to form and be read and construed as part of this agreement:
 - (i) Bidding documents, viz
 - Invitation to bid;
 - Tax compliance status PIN;
 - Pricing schedule(s);
 - Filled in task directive/proposal;
 - Bidder's Disclosure (SDB 4);
 - Preference claims for Specific Goals (SBD 6.1);
 - Special Conditions of Contract;
 - (ii) General Conditions of Contract; and
 - (iii) Other (specify)
3. I confirm that I have satisfied myself as to the correctness and validity of my bid; that the price(s) and rate(s) quoted cover all the services specified in the bidding documents; that the price(s) and rate(s) cover all my obligations and I accept that any mistakes regarding price(s) and rate(s) and calculations will be at my own risk.
4. I accept full responsibility for the proper execution and fulfilment of all obligations and conditions devolving on me under this agreement as the principal liable for the due fulfilment of this contract.

addo elephant

agulhas

augrabies

bontebok

camdeboo

golden gate highlands

karoo

kglalagadi transfrontier

knysna lake area

kruger

mapungubwe

marakele

mokala

mountain zebra

namaqua

table mountain

tankwa karoo

tsitsikamma

richtersveld

west coast

wilderness

5. I declare that I have no participation in any collusive practices with any bidder or any other person regarding this or any other bid.
6. I confirm that I am duly authorised to sign this contract.

NAME (PRINT)

CAPACITY

SIGNATURE

NAME OF FIRM

DATE

WITNESSES

1

2

DATE:

CONTRACT FORM - RENDERING OF SERVICES**PART 2 (TO BE COMPLETED BY SANParks)**

1. I in my capacity as accept your bid under reference number for the rendering of services indicated hereunder and/or further specified in the annexure(s).
2. An official order indicating service delivery instructions is forthcoming.
3. I undertake to make payment for the services rendered in accordance with the terms and conditions of the contract, within 30 (thirty) days after receipt of an invoice.

DESCRIPTION OF SERVICE	PRICE (ALL APPLICABLE TAXES INCLUDED)	COMPLETION DATE	TOTAL PREFERENCE POINTS CLAIMED	POINTS CLAIMED FOR EACH SPECIFIC GOAL
Construction of an ablution facility and roof (canopy) at Vredesvallei Primary School near Kakamas in the Northern Cape		31 January 2027		

4. I confirm that I am duly authorised to sign this contract.

SIGNED ATON.....

NAME (PRINT)

SIGNATURE

OFFICIAL STAMP

WITNESSES

1

2

DATE:



**HEALTH & SAFETY
SPECIFICATIONS
FOR**

**CONSTRUCTION OF AN ABLUTION FACILITY AND ROOF (CANOPY) AT
VREDESVALLEI SCHOOL**

**CONTRACT NO: SP-AU-0055/2
RFQ**

(Contractor)

Date: October 2026

Contact person: Zamakhosi Mkhonza
Address: PO Box 787
Pretoria, 0001
Tel No: (012) 426 5199
Email Fax: 086 695 9139
Email: zamakhosi.mkhonza@sanparks.org

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1. PURPOSE OF THE HEALTH AND SAFETY SPECIFICATION

This Health and Safety Specification has been prepared to comply with the requirements of the Construction Regulations 2014.

The purpose of this site specific Health and Safety Specification is to comply with legal requirements and to provide health and safety information about specific project risks known by the Client, Designer and Client Agent to be applicable to this project. This document also provides minimum health and safety requirements, standards and expectations that the principal contractor and contractors must adhere to.

The Contractor must take into account all information in this specification and ensure that their tenders include adequate resource and competence to deal with the matters detailed herein so that all relevant contents are dealt with in a way which is in compliance with legislation and the ethical concerns for the safeguarding of employees, contractors and other persons affected by the construction activities.

The Health and Safety Specification will be implemented during construction of the works and any construction activity that the Client has control over.

This will also assist in ensuring that all the costs related to the compliance with Occupational Health Act 85 of 1993 and the Construction Regulations 2014, as well as this Health and Safety Specification, are taken into consideration at Tender stage.

No advice, approval of any document required by the Health and Safety Specification such as hazard identification and risk assessment action plans or any other form shall be construed as an acceptance by the Client of any obligation that absolves the Contractor from achieving the required level of performance and compliance with legal requirements.

Further, there is no acceptance of liability by the Client which may result from the Contractor failing to comply with the Health and Safety Specification unless the Client has issued an instruction to any requirement, i.e. the Contractor remains responsible for achieving the required performance levels.

2. IMPLEMENTATION OF THE HEALTH AND SAFETY SPECIFICATION

This Health and Safety Specification forms an integral part of the Contract, and Contractors shall make it an integral part of their Contracts with Sub Contractors and Suppliers. Contractors employed by the Client are to ensure that the provisions of the Health and Safety Specification are applied both on the site and in respect of all off site activities relating to the project, in particular in transport activities and project dedicated off site fabrication works.

The Contractor shall enforce the provisions of the Health and Safety Specification amongst all sub-contractors and suppliers for the project.

The Contractor shall sign the acknowledgment on the last page of this safety specification that he/she has familiarized him/herself with the content of the Health and Safety Specification and shall comply with all obligations in respect thereof.

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The successful Contractor will be required to compile a Health and Safety Plan based on the requirements of the Occupational Health Act 85 of 1993 and these Specifications, which will need to be approved by Client prior to commencement with construction work.

3. APPLICATION AND INTERPRETATION

This document is to be read and understood in Conjunction with the following inter alia:

- Occupational Health and Safety Act (Act 85 of 1993)
- SABS codes and standards referred to by the Occupational Health and Safety Act
- Regulations as per the Occupational Health and Safety Act (Act 85 of 1993) with specific reference but not limited to:
 - General Safety Regulations (GN 928, 25 June 2003)
 - General Machinery Regulations (GN R1521, 5 August 1988)
 - Electrical Machinery Regulations (GN R250, 25 March 2011)
 - Electrical Installation Regulations (GN R242, 6 March 2009)
 - Driven Machinery Regulations (GN R1010, 18 July 2003)
 - Hazardous Chemical Substance Regulations (GN R930, 25 June 2003)
 - Hazardous Biological Agents Regulations(GN R 1390, 27 December 2001)
- Basic Conditions of Employment Act (Act 75 of 1997)
- SANParks Environmental Management Plan
- SANParks Code of Conduct of working in a National Park

4. DEFINITIONS

ALL REFERENCES TO CLIENT IN THIS HEALTH AND SAFETY SPECIFICATION ALSO REFER TO CLIENT AGENT, WHERE SO APPOINTED.

Definitions (as per the Construction Regulations 2014) applicable to this Health and Safety Specification:

"agent" means a competent person who acts as a representative for a client;

"angle of repose" means the steepest angle of a surface at which a mass of loose or fragmented material will remain stationary in a pile on the surface, rather than sliding or crumbling away;

"bulk mixing plant" means machinery, appliances or other similar devices that are assembled in such a manner so as to be able to mix materials in bulk for the purposes of using the mixed product for construction work;

"client" means any person for whom construction work is being performed;

"competent person" means a person who has, in respect of the work or task to be performed, the required knowledge, training and experience and, where applicable, qualifications,

specific to that work or task: Provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualification Framework Act, 2000 (Act No.67 of 2000), those qualifications and that training must be regarded as the required qualifications and training; and is familiar with the Act and with the applicable regulations made under the Act;

"construction manager" means a competent person responsible for the management of the physical construction processes and the coordination, administration and management of resources on a construction site;

"construction site" means a work place where construction work is being performed;

"construction supervisor" means a competent person responsible for supervising construction activities on a construction site;

"construction vehicle" means a vehicle used as a means of conveyance for transporting persons or material, or persons and material, on and off the construction site for the purposes of performing construction work;

"construction work" means any work in connection with-

- the construction, erection, alteration, renovation, repair, demolition or dismantling of or addition to a building or any similar structure; or
- the construction, erection, maintenance, demolition or dismantling of any bridge, dam, canal, road, railway, runway, sewer or water reticulation system; or the moving of earth, clearing of land, the making of excavation, piling, or any similar civil engineering structure or type of work ;

"construction work permit" means a document issued in terms of regulation 3;

"contractor" means an employer who performs construction work;

"demolition work" means a method to dismantle, wreck, break, pull down or knock down of a structure or part thereof by way of manual Labour, machinery, or the use of explosives;

"design" in relation to any structure, includes drawings, calculations, design details and specifications ;

"designer" means a competent person who-

- prepares a design;
- checks and approves a design;
- arranges for a person at work under his or her control to prepare a design, including an employee of that person where he or she is the employer; or
- designs temporary work, including its components;
- an architect or engineer contributing to, or having overall responsibility for a design;
- a building services engineer designing details for fixed plant;
- a surveyor specifying articles or drawing up specifications;
- a contractor carrying out design work as part of a design and building project; or
- an interior designer, shop-fitter or landscape architect;

"excavation work" means the making of any man-made cavity, trench, pit or depression formed by cutting, digging or scooping;

"explosive actuated fastening device" means a tool that is activated by an explosive charge and that is used for driving bolts, nails and similar objects for the purpose of providing fixing;

"fall arrest equipment" means equipment used to arrest a person in a fall, including personal equipment, a body harness, lanyards, deceleration devices, lifelines or similar equipment;

"fall prevention equipment" means equipment used to prevent persons from falling from a fall risk position, including personal equipment, a body harness, lanyards, lifelines or physical equipment such as guard-rails, screens, barricades, anchorages or similar equipment;

"fall protection plan" means a documented plan, which includes and provides for -

- all risks relating to working from a fall risk position, considering the nature of work undertaken;
- the procedures and methods to be applied in order to eliminate the risk of falling; and
- a rescue plan and procedures;

"fall risk" means any potential exposure to falling either from, off or into;

"health and safety file " means a file, or other record containing the information in writing required by these Regulations;

"health and safety plan" means a site, activity or project specific documented plan in accordance with the client's health and safety specification;

"health and safety specification" means a site, activity or project specific document prepared by the client pertaining to all health and safety requirements related to construction work;

"material hoist" means a hoist used to lower or raise material and equipment, excluding passengers;

"medical certificate of fitness" means a certificate contemplated in regulation 7(8);

"mobile plant" means any machinery, appliance or other similar device that is able to move independently, and is used for the purpose of performing construction work on a construction site;

"National Building Regulations" means the National Building Regulations made under the National Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977), and promulgated by Government Notice No. R. 2378 of 30 July 1990, as amended by Government Notices No's R. 432 of 8 March 1991, R. 919 of 30 July 1999 and R. 547 of 30 May 2008;

"person day" means one normal working shift of carrying out construction work by a person on a construction site;

"principal contractor" means an employer appointed by the client to perform construction work;

"Professional Engineer or Professional Certificated Engineer" means a person holding registration as either a Professional Engineer or Professional Certificated Engineer in terms of the Engineering Profession Act, 2000 (Act No. 46 of 2000);

"Professional Technologist" means a person holding registration as a Professional Engineering Technologist in terms of the Engineering Profession Act, 2000;

"provincial director" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003;

"scaffold" means a temporary elevated platform and supporting structure used for providing access to and supporting workmen or materials or both;

"shoring" means a system used to support the sides of an excavation and which is intended to prevent the cave-in or the collapse of the sides of an excavation;

"structure" means-

- any building, steel or reinforced concrete structure (not being a building), railway line or siding, bridge, waterworks, reservoir, pipe or pipeline, cable, sewer, sewage works, fixed vessels, road, drainage works, earthworks, dam, wall, mast, tower, tower crane, bulk mixing plant, pylon, surface and underground tanks, earth retaining structure or any structure designed to preserve or alter any natural feature, and any other similar structure;
- any falsework, scaffold or other structure designed or used to provide support or means of access during construction work; or
- any fixed plant in respect of construction work which includes installation, commissioning, decommissioning or dismantling and where any construction work involves a risk of a person falling;

"suspended platform" means a working platform suspended from supports by means of one or more separate ropes from each support ;

"temporary works" means any falsework, formwork, support work, scaffold, shoring or other temporary structure designed to provide support or means of access during construction work;

"the Act" means the Occupational Health and Safety Act , 1993 (Act No. 85 of 1993);

"tunneling" means the construction of any tunnel beneath the natural surface of the earth for a purpose other than the searching for or winning of a mineral.

5. GENERAL REQUIREMENTS

5.1 Duties of Principal Contractor / Contractor in terms of Construction Regulations 2014

A Principal Contractor must:

- provide and demonstrate to the client a suitable, sufficiently documented and coherent site specific health and safety plan, based on the client's documented health and safety specifications, which plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the principal contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, which must be made available on request to an inspector, the client, the client's agent or a contractor; and
- on appointing any other contractor, in order to ensure compliance with the provisions of the Act –
 - provide contractors who are tendering to perform construction work for the principal contractor, with the relevant sections of the health and safety specifications pertaining to the construction work which has to be performed;
 - ensure that potential contractors submitting tenders have made sufficient provision for health and safety measures during the construction process;
 - ensure that no contractor is appointed to perform construction work unless the principal contractor is reasonably satisfied that the contractor that he or she intends to appoint, has the necessary competencies and resources to perform the construction work safely;
 - ensure prior to work commencing on the site that every contractor is registered and in good standing with the compensation fund or with a licensed compensation insurer as contemplated in the Compensation for Occupational Injuries and Diseases Act, 1993;
 - appoint each contractor in writing for the part of the project on the construction site
 - take reasonable steps to ensure that each contractor's health and safety plan is implemented and maintained on the construction site;
 - ensure that the periodic site audits and document verification are conducted at intervals mutually agreed upon between the principal contractor and any contractor, but at least once every 30 days;
 - stop any contractor from executing construction work which is not in accordance with the client's health and safety specifications and the principal contractor's health and safety plan for the site or which poses a threat to the health and safety of persons;
- where changes are brought about to the design and construction, make available sufficient health and safety information and appropriate resources to the contractor to execute the work safely;
- discuss and negotiate with the contractor the contents of their health and safety plan and finally approve that plan for implementation;

- ensure that a copy of both the principal contractor and contractor's health and safety plan is available on request to an employee, an inspector, a contractor, the client or the client's agent;
- hand over a consolidated health and safety file to the client upon completion of the construction work, to include a record of all drawings, designs, materials used and other similar information concerning the completed structure;
- in addition to the documentation required in the health and safety file include and make available a comprehensive and updated list of all the contractors on site accountable to the principal contractor, the agreements between the parties and the type of work being done;
- ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3.

A contractor must prior to performing any construction work-

- provide and demonstrate to the principal contractor a suitable and sufficiently documented health and safety plan, based on the relevant sections of the client's health and safety specification and provided by the principal contractor, which plan must be applied from the date of commencement of and for the duration of the construction work and which must be reviewed and updated by the contractor as work progresses;
- open and keep on site a health and safety file, which must include all documentation required in terms of the Act and these Regulations, and which must be made available on request to an inspector, the client, the client's agent or the principal contractor;
- before appointing another contractor to perform construction work be reasonably satisfied that the contractor that he or she intends to appoint has the necessary competencies and resources to perform the construction work safely;
- co-operate with the principal contractor as far as is necessary to enable each of them to comply with the provisions of the Act;
- as far as is reasonably practicable, promptly provide the principal contractor with any information which might affect the health and safety of any person at work carrying out construction work on the site, any person who might be affected by the work of such a person at work, or which might justify a review of the health and safety plan.

Where a contractor appoints another contractor to perform construction work, the duties that apply to the principal contractor will apply to the contractor as if he or she were the principal contractor.

A principal contractor must take reasonable steps to ensure co-operation between all contractors appointed by the principal contractor to enable each of those contractors to comply with these Regulations.

No contractor may allow or permit any employee or person to enter any site, unless that employee or person has undergone health and safety induction training pertaining to the hazards prevalent on the site at the time of entry.

A contractor must ensure that all visitors to a construction site undergo health and safety induction pertaining to the hazards prevalent on the site and must ensure that such visitors have the necessary personal protective equipment.

A contractor must at all times keep on his or her construction site records of the health and safety induction training and such records must be made available on request to an inspector, the client, the client's agent or the principal contractor.

A contractor must ensure that all his or her employees have a valid medical certificate of fitness specific to the construction work to be performed and issued by an occupational health practitioner in the form of Annexure 3 (a template of which can be found in the Construction Regulations, 2014).

5.2 Management and Supervision of Construction Work

A principal contractor must, in writing, appoint one full-time competent person as the construction manager with the duty of managing all the construction work on a single site, including the duty of ensuring occupational health and safety compliance, and in the absence of the construction manager an alternate must be appointed by the principal contractor.

A principal contractor must upon having considered the size of the project, in writing appoint one or more assistant construction managers for different sections thereof: Provided that the designation of any such person does not relieve the construction manager of any personal accountability for failing in his or her management duties in terms of this regulation.

Where the construction manager has not appointed assistant construction managers, or, in the opinion of an inspector, a sufficient number of such assistant construction managers have not been appointed, that inspector must direct the construction manager in writing to appoint the number of assistant construction managers indicated by the inspector, and those assistant construction managers must be regarded as having been appointed.

No construction manager appointed in terms of the Regulations may manage any construction work on or in any construction site other than the site in respect of which he or she has been appointed.

A contractor must, after consultation with the client and having considered the size of the project, the degree of danger likely to be encountered or the accumulation of hazards or risks on the site, appoint a full-time or part-time construction health and safety officer in writing to assist in the control of all health and safety related aspects on the site: Provided that, where the question arises as to whether a construction health and safety officer is necessary, the decision of an inspector is decisive.

No contractor may appoint a construction health and safety officer to assist in the control of health and safety related aspects on the site unless he or she is reasonably satisfied that the construction health and safety officer that he or she intends to appoint is registered with a statutory body approved by the Chief Inspector and has necessary competencies and resources to assist the contractor

A construction manager must in writing appoint construction supervisors responsible for construction activities and ensuring occupational health and safety compliance on the construction site.

A contractor must, upon having considered the size of the project, in writing appoint one or more competent employees for different sections thereof to assist the construction supervisor, and every such employee has, to the extent clearly defined by the contractor in the letter of appointment, the same duties as the construction supervisor: Provided that the designation of such employee does not relieve the construction supervisor of any personal accountability for failing in his or her supervisory duties.

Where the contractor has not appointed such an employee, or, in the opinion of an inspector, a sufficient number of such employees have not been appointed, that inspector must instruct the employer to appoint the number of employees indicated by the inspector.

No construction supervisor appointed may supervise any construction work on or in any construction site other than the site in respect of which he or she has been appointed: Provided that if a sufficient number of competent employees have been appropriately designated on all the relevant construction sites, the appointed construction supervisor may supervise more than one site.

5.3 Notification of Intention to Commence Construction Work

The Contractor shall notify the Provincial Director of the Department of Labour of the intention to commence construction work at least 7 days prior to the works commencing if the intended construction work will:

- include excavation work
- Include work at height where there is a risk of falling
- Include the demolition of a structure, or
- Include the use of explosives to perform construction work.

If the construction work involves construction of a single storey dwelling for a client, and such client will be residing in such dwelling upon completion, the contractor must also notify the Provincial Director of the Department of Labour at least 7 days before the works commence.

This must be done on a form similar to an Annexure 2 (template of which can be found in the Construction Regulations, 2014). A copy of the notification letter to the Provincial Director shall be forwarded to the Client for record purposes.

5.4 Construction Work Permit

It must be noted that from August 2018 all projects that meet the following criteria will require a construction work permit to be applied for at least 30 days prior to the work being carried out:

- Exceeds 365 days and will involve more than 3600 person days or
- Tender value limit grade is 7, 8 or 9 of the Construction Industry Development Board (CIDB) grading.

It is the client's responsibility to apply for this permit from the Provincial Director and construction work may not commence until the permit has been issued by the Provincial Director.

A copy of this permit will be required to be kept in the principal contractors safety file, and the site specific number issued by the Provincial Director must be displayed at the site entrance.

5.5 Assignment of Contractor's Responsible Persons to Manage Health and Safety on Site

The Contractor shall submit management and supervisory appointments as well as any relevant appointments in writing (as stipulated by the Construction Regulations 2014 and the Occupational Safety and Health Act 1993), prior to commencement of work (refer to **Annexure B** at the end of this Health and Safety Specification).

5.6 Competency for Contractor's Responsible Persons

The Contractor's responsible persons shall be competent in health and safety and be familiar with the Occupational Health and Safety Act 1993, and applicable regulations. Valid proof of pertinent health and safety courses attended by such persons will be required to be presented to the Client.

5.7 Compensation of Occupational Injuries and Diseases Act 130 of 1993 (COIDA)

The successful Contractor shall submit to the Client a valid letter of good standing with the Compensation Insurer prior to appointment.

5.8 Occupational Health and Safety Policy

The Contractor shall submit their Health and Safety Policy, prior to construction commencement, signed by the Chief Executive Officer. The Policy must outline objectives and how they will be achieved and implemented within the operations.

5.9 Health and Safety Organogram

The Contractor shall submit an organogram, prior to construction commencement, outlining the Health and Safety Site Team that will be assigned to the project, if successful with the tender. In cases where appointments have not been made, the organogram shall reflect the position. The organogram shall be updated, when there is a change in the site team.

5.10 Risk Assessments

Baseline Risk Assessment

The Client shall cause a baseline risk assessment to be conducted by a competent person before the design process and tender process commence, and the assessed risks shall form part of the health and safety specifications.

The Contractor must, before commencement of any construction work, and during construction work, have risk assessments performed by a competent person appointed in writing, which risk assessments form part of the health and safety plan to be applied on the site and must include:

- The identification of the risks and hazards to which persons may be exposed to;
- An analysis and evaluation of the risks and hazards identified; based on a documented method
- A documented plan and applicable safe work procedures to mitigate, reduce or control the risks and hazards that have been identified;
- A monitoring plan; and
- A review plan

The Contractor must ensure that, as far as is reasonably practicable, ergonomic related hazards are analysed, evaluated and addressed in a risk assessment.

The Contractor must ensure that all employees under his control are informed, instructed and trained by a competent person regarding any hazard and the related work procedures and/or control measures **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site**.

The Principal Contractor must ensure that all contractors are informed regarding any hazard that is stipulated in the risk assessment **before any work commences** and thereafter **at the times determined in the risk assessment monitoring and review plan of the relevant site**.

The Contractor must consult with the health and safety committee or with a representative trade union or representative group of employees if no health and safety committee exists, on the monitoring and review of the risk assessments for the site.

The Contractor must ensure that copies of risk assessment for this site are available on site for inspection purposes by interested parties (inspector, the client, client's agent, any contractor, any employee, a representative trade union, a health and safety representative or safety committee member.

A Contractor must review the relevant risk assessment where changes are effected to the design and/or construction that result in a change to the risk profile, or when an incident has occurred.

Preventative measures must first address the elimination of the hazard or risk. Should PPE be required to reduce risk, the equipment or clothing to be used must be SABS approved

In general the Contractor must ensure that the Risk Assessment involves identifying the hazards present in a work activity on site. This is followed by an evaluation of the extent of the risk involved taking into account those precautions already being taken.

The following general principle should be followed when conducting a risk assessment:

- All relevant risks and/or hazards should be systematically addressed;

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- The risk assessment should address what actually happens in the workplace during the work activity;
- All employees and those who may be affected must be considered, including maintenance staff, security guards, visitors and subcontractors;
- The risk assessment should highlight those groups and individuals who may be required to work alone or who have disabilities;
- The risk assessment process should take into account the existing safety measures and controls.
- The level of detail on a risk assessment should be appropriate to the level of risk.

5.11 Safe Work Procedures

Safe Work Procedures are to form part of the H&S Plan and **must be compiled for all the identified activities**.

The safe work procedures must address the following elements:

- The work method to be followed to conduct work safely
- Mitigation of identified risks
- Reducing and controlling risks and hazards that have been identified
- Responsibilities of competent persons
- Required personal protective equipment
- Correct equipment/tools/machinery to be used
- Reference to relevant registers to be completed
- Reference to applicable risk assessment

5.12 Health and Safety Representative(s)

The Contractor shall ensure that Health and Safety Representative(s) is/are elected and trained to carry out his / her functions. The appointment must be in writing. The Health and Safety Representative shall carry out regular inspections, keep records and report to the supervisor to take appropriate action. He / she shall attend Health and Safety Committee Meetings. The Health and Safety Representative shall be part of the team that will investigate incidents, accidents and non-conformances.

5.13 Health and Safety Committee

Where two or more health and safety representatives have been appointed on site, the Contractor shall ensure that monthly health and safety meetings are held with such representatives and minutes are kept on record. Meetings must be organized and chaired by the Contractor's Health and Safety Committee Chairperson. Minutes of these meetings must be available for the employees of the contractor to refer to.

5.14 Medical Certificate of Fitness

The contractor must ensure that their employees on site have a valid medical certificate of fitness, specific to the construction work being performed, issued by an occupational health practitioner in the form of an Annexure 3 template (refer to the Construction Regulations 2014 on the Department of Labour website for a sample of this form).

5.15 Health and Safety Training

The Contractor shall quarterly conduct a training needs analysis to ascertain what health and safety training is required. A plan of action should be devised and forwarded to the Client for records. Once the identified people have attended the training, the Contractor must provide the Client with copies of certificates obtained.

5.15.1 Induction

No Contractor may allow or permit any employee or person to enter site unless they have undergone health and safety induction training pertaining to the hazards prevalent on site at the time of entry. This includes visitors to site. The Contractor must ensure that visitors to site have the necessary protective equipment (PPE). A copy of attendance registers of all employees who attend inductions shall be kept.

5.15.2 Awareness

The Contractor shall conduct periodic toolbox talks on site, preferably weekly or before any hazardous work takes place. The talks shall cover the relevant activity and an attendance register must be signed by all attendees. This record of who attended and the content of the topic will be kept on the site health and safety file as evidence of training.

5.16 Competency

After the Contractor has identified the training to be conducted as part of the competency requirement, and based on Risk Assessment, he shall send the relevant persons on appropriate courses and keep certificates of training for reference. Familiarity with the Health and Safety Act and Regulations is an integral part of the definition of competence.

5.17 General Record Keeping

The Contractor shall keep and maintain Health and Safety records to demonstrate compliance with the Health and Safety Specification and the Occupational Health and Safety Act. The contractor shall ensure that all records of incidents, spot fines, training etc. are kept on site. All documents shall be available for inspection by the Client, or the Department of Labour's Inspectors.

5.18 General Inspection, Monitoring and Reporting

The Contractor shall carry out inspections as required by **Annexure C** in this Health and Safety Specification, as well as by health and safety legislation.

5.19 Emergency Procedures

The Contractor shall submit a detailed Emergency Procedure for approval by the Client prior to commencement on site. The procedure shall detail the response plan including the following:

- List of key personnel;

- Details of emergency services;
- Actions or steps to be taken in the event of the emergency; and
- Information on hazardous materials / situations, including each material's hazardous potential impact or risk on the environment or human and measures to be taken in the event of an accident.

Emergency procedure(s) shall include, but shall not be limited to, fire, spills, accidents to employees, use of hazardous substances, dangers as a result of riot / service deliver protests / intimidation, etc. The Contractor shall advise the Client in writing of any on-site emergencies, together with a record of action taken, within 24 hours of the emergency occurring. A contact list of all service providers (Fire Department, Ambulance, Police, Medical and Hospital, etc) must be maintained and available to site personnel.

5.20 First Aid Box and First Aid Equipment

The Contractor shall provide first aid box/es and appoint, in writing, First Aider(s) for this project in line with the results of the Contractor's risk assessment for the project, this health and safety specification as well as the provisions of the General Safety Regulations. The appointed First Aider(s) are to be sent for accredited first aid training before starting on site. Valid certificates are to be kept on site.

First Aid box/es must be adequately stocked at all time, accessible and be controlled by a qualified First Aider. If required by the Client, the Contractor shall have a stretcher on site to be used in case of a serious incident.

5.21 Accident / Incident Reporting and Investigation

The Contractor shall, in addition to the prescribed requirements of the Occupational Health and Safety Act and General Safety Regulations, investigate, record and report all Section 24 reportable incidents to the Client within 24 hours of the incident occurring. Incident investigations shall be conducted by the Contractor's appointed Accident Investigator – this Investigator must be a competent person or persons who have sufficient knowledge to carry out an investigation.

In the event of a fatality or a permanent disabling injury the Contractor must submit proof of reporting of incident to Department of Labour as well as proof of preventative measures to the Client. The Client reserves the right to conduct investigations into any incidents that they deem fit and the Contractor is required to provide full co-operation in this regard.

5.22 Hazards and Potential Situations

The Contractor shall immediately notify other Contractors of any hazardous or potentially hazardous situations, which may arise during performance of the activities.

5.23 Occupational Health and Safety Signage

The Contractor shall ascertain and provide adequate on site health and safety signage. This signage shall include, but shall not be limited to, Hard Hat / Helmet Area; Safety Shoes to be

worn on site; Dust Masks to be worn in areas where there might be exposure to excessive dust; Ear Plugs / Muffs to be worn where there might be noise exposure over 85 db.; Gloves; Safety Goggles; Safety Harness, Workers in Excavation, traffic management, etc. The Contractor shall be responsible to maintain the quality and replacement of signage.

5.24 Management Of Contractors by Principal Contractor

The Principal Contractor shall ensure that all contractors under his control are complying with the respective Health and Safety Plans, as well as Health and Safety Legislation.

5.25 Stacking of Materials

In addition to the provisions for the stacking of articles in the General Safety Regulations, 2003, the contractor must ensure that –

- a competent person is appointed in writing with the duty of supervising all stacking and storage on a construction site;
- adequate storage areas are provided;
- there are demarcated storage areas; and
- storage areas are kept neat and under control.

5.26 Housekeeping and General Safeguarding on Construction Sites

A contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, promulgated by Government Notice No. R. 2281 of 16 October 1987, ensure that suitable housekeeping is continuously implemented on each construction site, including-

- the proper storage of materials and equipment;
- the removal of scrap, waste and debris at appropriate intervals;
- ensuring that materials required for use, are not placed on the site so as to obstruct means of access to and egress from workplaces and passageways;
- ensuring that materials which are no longer required for use, do not accumulate on and are removed from the site at appropriate intervals;
- ensuring that waste and debris are not disposed of from a high place with a chute, unless the chute complies with the requirements set out in the regulations;
- ensuring that construction sites in built-up areas adjacent to a public way are suitably and sufficiently fenced off and provided with controlled access points to prevent the entry of unauthorized persons; and
- ensuring that a catch platform or net is erected above an entrance or passageway or above a place where persons work or pass under, or fencing off the danger area if work is being performed above such entrance, passageway, or place so as to ensure that all persons are kept safe in the case of danger of possibility of persons being struck by falling objects.

5.27 Construction Vehicles and Mobile Plant

A contractor must ensure that all construction vehicles and mobile plant-

- are of an acceptable design and construction;
- are maintained in a good working order;

- are used in accordance with their design and the intention for which they were designed, having due regard to safety and health;
- are operated by a person who-
- has received appropriate training, is certified competent and in possession of proof of competency and is authorised in writing to operate those construction vehicles and mobile plant;
- has a medical certificate of fitness to operate those construction vehicles and mobile plant, issued by an occupational health practitioner in the form of Annexure 3.
- have safe and suitable means of access and egress;
- are properly organized and controlled in any work situation by providing adequate signalling or other control arrangements to guard against the dangers relating to the movement of vehicles and plant, in order to ensure their continued safe operation;
- are prevented from falling into excavations, water or any other area lower than the working surface by installing adequate edge protection, which may include guard-rails and crash barriers;
- are fitted with structures designed to protect the operator from falling material or from being crushed should the vehicle or mobile plant overturn;
- are equipped with an acoustic warning device which can be activated by the operator;
- are equipped with an automatic acoustic reversing alarm; and
- are inspected by the authorised operator or driver on a daily basis using a relevant checklist prior to use and that the findings of such inspection are recorded in a register kept in the construction vehicle or mobile plant.

A contractor must ensure that-

- no person rides or is required or permitted to ride on a construction vehicle or mobile plant otherwise than in a safe place provided thereon for that purpose;
- every construction site is organized in such a way that, as far as is reasonably practicable, pedestrians and vehicles can move safely and without risks to health;
- the traffic routes are suitable for the persons, construction vehicles or mobile plant using them, are sufficient in number, in suitable positions and of sufficient size;
- every traffic route is, where necessary, indicated by suitable signs;
- all construction vehicles and mobile plant left unattended at night, adjacent to a public road in normal use or adjacent to construction areas where work is in progress, have appropriate lights or reflectors, or barricades equipped with appropriate lights or reflectors, in order to identify the location of the vehicles or plant;
- all construction vehicles or mobile plant when not in use, have buckets, booms or similar appendages, fully lowered or blocked, controls in a neutral position, motors stopped, wheels chocked, brakes set and ignition secured;
- whenever visibility conditions warrant additional lighting, all mobile plant are equipped with at least two headlights and two taillights when in operation;
- tools, material and equipment are secured and separated by means of a physical barrier in order to prevent movement when transported in the same compartment with employees;
- vehicles used to transport employees have seats firmly secured and adequate for

the number of employees to be carried; and

- all construction vehicles or mobile plant travelling, working or operating on public roads comply with the requirements of the National Road Traffic Act, 1996.

5.28 Electrical Installations and Machinery on Construction Sites

A contractor must, in addition to compliance with the Electrical Installation Regulations and the Electrical Machinery Regulations, ensure that –

- before construction commences and during the progress thereof, adequate steps are taken to ascertain the presence of and guard against danger to workers from any electrical cable or apparatus which is under, over or on the site;
- all parts of electrical installations and machinery are of adequate strength to withstand the working conditions on construction sites;
- the control of all temporary electrical installations on the construction site is designated to a competent person who has been appointed in writing for that purpose;
- all temporary electrical installations used by the contractor are inspected at least once a week by a competent person and the inspection findings are recorded in a register kept on the construction site; and
- all electrical machinery is inspected by the authorized operator or user on a daily basis using a relevant checklist prior to use and the inspection findings are recorded in a register kept on the construction site.

5.29 Use and Temporary Storage of Flammable Liquids on Construction Sites

A contractor must, in addition to compliance with the provisions for the use and storage of flammable liquids in the General Safety Regulations, 2003, ensure that –

- where flammable liquids are being used, applied or stored at the workplace concerned, it is done in a manner that does not cause a fire or explosion hazard, and that the workplace is effectively ventilated;
- no person smokes in any place in which flammable liquid is used or stored, and the contractor must affix a suitable and conspicuous notice at all entrances to any such areas prohibiting such smoking;
- an adequate amount of efficient fire-fighting equipment is installed in suitable locations around the flammable liquids store with the recognized symbolic signs;
- only the quantity of flammable liquid needed for work on one day is taken out of the store for use;
- all containers holding flammable liquids are kept tightly closed when not in actual use and, after their contents have been used up, are removed from the construction site and safely disposed of;
- where flammable liquids are decanted, the metal containers are bonded and earthed; and
- no flammable material, including cotton waste, paper, cleaning rags or similar material is stored together with flammable liquids

5.30 Water environments

Not applicable on this project..

SP-AU-0055/2 – Construction of an ablution facility and roof (canopy) at Vredesvallei school

5.31 Fire precautions on Construction Sites

A contractor must, in addition to compliance with the Environmental Regulations for Workplaces, 1987, ensure that –

- all appropriate measures are taken to avoid the risk of fire;
- sufficient and suitable storage is provided for flammable liquids, solids and gases;
- smoking is prohibited and notices in this regard are prominently displayed in all places containing readily combustible or flammable materials;
- in confined spaces and other places in which flammable gases, vapours or dust can cause danger-
 - only suitably protected electrical installations and equipment, including portable lights, are used;
 - there are no flames or similar means of ignition;
 - there are conspicuous notices prohibiting smoking;
 - oily rags, waste and other substances liable to ignite are without delay removed to a safe place; and
 - adequate ventilation is provided;
- combustible materials do not accumulate on the construction site;
- welding, flame cutting and other hot work are done only after appropriate precautions have been taken to reduce the risk of fire;
- suitable and sufficient fire-extinguishing equipment is placed at strategic locations or as may be recommended by the Fire Chief or local authority concerned, and that such equipment is maintained in a good working order;
- the fire equipment contemplated above is inspected by a competent person, who has been appointed in writing for that purpose, in the manner indicated by the manufacturer thereof;
- a sufficient number of workers are trained in the use of fire- extinguishing equipment;
- where appropriate, suitable visual signs are provided to clearly indicate the escape routes in the case of a fire;
- the means of escape is kept clear at all times;
- there is an effective evacuation plan providing for all -
 - persons to be evacuated speedily without panic;
 - persons to be accounted for; and
 - plant and processes to be shut down; and
 - a siren is installed and sounded in the event of a fire.

5.32 Construction Employees' Facilities

A contractor must, in terms of the Construction Regulations 2014, provide:

- Shower facilities after consultation with the employees or employees representatives, or at least one shower facility for every 15 persons;
- at least one sanitary facility for each sex and for every 30 workers;
- changing facilities for each sex;
- and sheltered eating area.

A contractor must provide reasonable and suitable living accommodation for the workers at construction sites who are far removed from their homes and where adequate transportation between the site and their homes, or other suitable living accommodation, is not available.

5.33 Fall protection

The Contractor must:

- designate a competent person to be responsible for the preparation of a fall protection plan
- ensure that the fall protection plan contemplated above is implemented, amended where and when necessary and maintained as required; and
- take steps to ensure continued adherence to the fall protection plan.

A fall protection plan contemplated above must include-

- a risk assessment of all work carried out from a fall risk position and the procedures and methods used to address all the risks identified per location;
- the processes for the evaluation of the employees' medical fitness necessary to work at a fall risk position and the records thereof;
- a programme for the training of employees working from a fall risk position and the records thereof;
- the procedure addressing the inspection, testing and maintenance of all fall protection equipment; and
- a rescue plan detailing the necessary procedure, personnel and suitable equipment required to affect a rescue of a person in the event of a fall incident to ensure that the rescue procedure is implemented immediately following the incident.

A contractor must ensure that a construction manager appointed under regulation 8(1) is in possession of the most recently updated version of the fall protection plan.

A contractor must ensure that all unprotected openings in floors, edges, slabs, hatchways and stairways are adequately guarded, fenced or barricaded or that similar means are used to safeguard any person from falling through such openings;

Also that no person is required to work in a fall risk position, unless such work is performed safely as contemplated in above and fall prevention and fall arrest equipment are approved as suitable and of sufficient strength for the purpose for which they are being used, having regard to the work being carried out and the load, including any person, they are intended to bear; and securely attached to a structure or plant, and the structure of plant and the means of attachment thereto are suitable and of sufficient strength and stability for the purpose of safely supporting the equipment and person who could fall, and fall arrest equipment is used only where it is not reasonably practicable to use fall prevention equipment.

5.34 Temporary works

A contractor must appoint a temporary works designer in writing to design, inspect and approve the erected temporary works on site before use.

A contractor must ensure that all temporary works operations are carried out under the supervision of a competent person who has been appointed in writing for that purpose.

A contractor must ensure that-

- all temporary works structures are adequately erected, supported, braced and maintained by a competent person so that they are capable of supporting all anticipated vertical and lateral loads that may be applied to them, and that no loads are imposed onto the structure that the structure is not designed to withstand;
- all temporary works structures are done with close reference to the structural design drawings, and where any uncertainty exists the structural designer should be consulted;
- detailed activity specific drawings pertaining to the design of temporary works structures are kept on the site and are available on request to an inspector, other contractors, the client, the client's agent or any employee;
- all persons required to erect, move or dismantle temporary works structures are provided with adequate training and instruction to perform those operations safely;
- all equipment used in temporary works structure are carefully examined and checked for suitability by a competent person, before being used;
- all temporary works structures are inspected by a competent person immediately before, during and after the placement of concrete, after inclement weather or any other imposed load and at least on a daily basis until the temporary works structure has been removed and the results have been recorded in a register and made available on site;
- no person may cast concrete, until authorization in writing has been given by the competent person contemplated above;
- if, after erection, any temporary works structure is found to be damaged or weakened to such a degree that its integrity is affected, it is safely removed or reinforced immediately;
- adequate precautionary measures are taken in order to-
- secure any deck panels against displacement; and
- prevent any person from slipping on temporary works due to the application of release agents;
- as far as is reasonably practicable, the health of any person is not affected through the use of solvents or oils or any other similar substances;
- upon casting concrete, the temporary works structure is left in place until the concrete has acquired sufficient strength to safely support its own weight and any imposed load, and is not removed until authorization in writing has been given by the competent person
- the foundation conditions are suitable to withstand the loads caused by the temporary works structure and any imposed load in accordance with the temporary works design.
- provision is made for safe access by means of secured ladders or staircases for all work to be carried out above the foundation bearing level;
- a temporary works drawing or any other relevant document includes construction sequences and methods statement;
- the temporary works designer has been issued with the latest revision of any relevant structural design drawing;
- a temporary works design and drawing is used only for its intended purpose and for

- a specific portion of a construction site; and
- the temporary works drawings are approved by the temporary works designer before the erection of any temporary works.

No contractor may use a temporary works design and drawing for any work other than its intended purpose.

5.35 Excavation

A contractor must-

- ensure that all excavation work is carried out under the supervision of a competent person who has been appointed in writing for that purpose; and
- Evaluate, as far as is reasonably practicable, the stability of the ground before excavation work begins.

A contractor who performs excavation work-

- must take reasonable and sufficient steps in order to prevent, as far as is reasonably practicable, any person from being buried or trapped by a fall or dislodgement of material in an excavation;
- may not require or permit any person to work in an excavation which has not been adequately shored or braced: Provided that shoring and bracing may not be necessary where-
- the sides of the excavation are sloped to at least the maximum angle of repose measured relative to the horizontal plane; or
- such an excavation is in stable material: Provided that-
- permission has been given in writing by the appointed competent person contemplated above upon evaluation by him or her of the site conditions; and
- where any uncertainty pertaining to the stability of the soil still exists, the decision from a professional engineer or a professional technologist competent in excavations is decisive and such a decision must be noted in writing and signed by both the competent person and the professional engineer or technologist, as the case may be;
- must take steps to ensure that the shoring or bracing contemplated above is designed and constructed in a manner that renders it strong enough to support the sides of the excavation in question;
- must ensure that no load, material, plant or equipment is placed or moved near the edge of any excavation where it may cause its collapse and consequently endangers the safety of any person, unless precautions such as the provision of sufficient and suitable shoring or bracing are taken to prevent the sides from collapsing;
- must ensure that where the stability of an adjoining building, structure or road is likely to be affected by the making of an excavation, steps are taken to ensure the stability of such building, structure or road and the safety of persons;
- must cause convenient and safe means of access to be provided to every excavation in which persons are required to work, and such access may not be further than six meters from the point where any worker within the excavation is

working;

- must ascertain, as far as is reasonably practicable, the location and nature of electricity, water, gas or other similar services which may in any way be affected by the work to be performed, and must before the commencement of excavation work that may affect any such service, take the steps that are necessary to render the circumstances safe for all persons involved;
 - must ensure that every excavation, including all bracing and shoring, is inspected-
 - daily, prior to the commencement of each shift;
 - after every blasting operation;
 - after an unexpected fall of ground;
 - after damage to supports; and
 - after rain,

by the competent person, in order to ensure the safety of the excavation and of persons, and those results must be recorded in a register kept on site and made available on request to an inspector, the client, the client's agent, any other contractor or any employee;

- must cause every excavation which is accessible to the public or which is adjacent to public roads or thoroughfares, or whereby the safety of persons may be endangered, to be –
 - adequately protected by a barrier or fence of at least one metre in height and as close to the excavation as is practicable; and
 - provided with warning illuminates or any other clearly visible boundary indicators at night or when visibility is poor, or have resort to any other suitable and sufficient precautionary measure where this is not practicable;
- must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with by any person entering any excavation;
- must, where the excavation work involves the use of explosives, appoint a competent person in the use of explosives for excavation, and must ensure that a method statement is developed by that person in accordance with the applicable explosives legislation; and
- must cause warning signs to be positioned next to an excavation within which or where persons are working or carrying out inspections or tests.

5.36 Demolition Work

Not applicable on this project.

5.37 Tunnelling

Not applicable on this project.

5.38 Scaffolding

A contractor must appoint a competent person in writing who must ensure that all scaffolding work operations are carried out under his or her supervision and that all scaffold erectors, team leaders and inspectors are competent to carry out their work.

A contractor using access scaffolding must ensure that such scaffolding, when in use, complies with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act.

5.39 Bulk mixing plant

A contractor must ensure that the operation of a bulk mixing plant is supervised by a competent person who has been appointed in writing and is –

- aware of all the dangers involved in the operation thereof; and
- conversant with the precautionary measures to be taken in the interest of health and safety.

No person supervising or operating a bulk mixing plant may authorize any other person to operate the plant, unless that person is competent to operate a bulk mixing plant.

A contractor must ensure that the placement and erection of a bulk mixing plant complies with the requirements set out by the manufacturer and that such plant is erected as designed.

A contractor must ensure that all devices to start and stop a bulk mixing plant are provided and that those devices are placed in an easily accessible position and constructed in a manner to prevent accidental starting.

A contractor must ensure that the machinery and plant selected is suitable for the mixing task and that all dangerous moving parts of a mixer are placed beyond the reach of persons by means of doors, covers or other similar means.

No person may remove or modify any guard or safety equipment relating to a bulk mixing plant, unless authorized to do so by the appointed person.

A contractor must ensure that all precautionary measures stipulated for confined spaces as determined in the General Safety Regulations, 2003, are complied with when entering any silo.

A contractor must ensure that a record is kept of all repairs or maintenance to a bulk mixing plant and that the record is available on site to an inspector, the client, the client's agent or any employee.

5.40 Rope Access Work

- (1) A contractor must –
 - (a) Appoint a competent person in writing as a rope access supervisor with the duty of supervising all rope access work on the site, including the duty of ensuring occupational health and safety compliance in relation to rope access work: Provided that the appointment of any such person does not relieve the construction manager of any personal accountability for failing in his management duties in terms of this regulation;

- (b) Ensure that all rope access work on the construction site carried out under the supervision of a competent person; and
- (c) Ensure that all rope access operations are competent and licensed to carry out their work.
- (2) No contractor may use or allow the use of rope access work unless –
 - (a) the design, selection and use of the equipment and anchors comply with the safety standards incorporated for this purpose into these Regulations under section 44 of the Act; and
 - (b) he or she is in possession of a site specific fall protection plan developed by a competent person applicable to the specific work and environment prior to the commencement of the work, including records of maintenance and inspections of all equipment
- (3) A contractor must ensure that adequate measures are in place to allow rescue procedures to commence immediately in the event of fall incident taking place.

5.41 Hazardous Chemical Substances (HCS)

In addition to the requirements in the HCS Regulations, the principal contractor must provide proof in the Health and Safety Plan that:

- Material Safety Data Sheets (MSDS's) of the relevant materials / hazardous chemical substances are available prior to use by the contractor. All MSDS's shall be available for inspection by the agent at all times.
- Risk assessments are done at least once every 6 months.
- Exposure monitoring is done according to OESSM and by an Approved Inspection Authority (AIA) and that the medical surveillance programme is based on the outcomes of the exposure monitoring.
- How the relevant HCS's are being/going to be controlled by referring to:
 - Limiting the amount of HCS
 - Limiting the number of employees
 - Limiting the period of exposure
 - Substituting the HCS
 - Using engineering controls
 - Using appropriate written work procedures
- The correct PPE is being used.
- HCS are stored and transported according to SABS 072 and 0228.
- Training with regards to these regulations was given.

The Health and Safety plan should make reference to the disposal of hazardous waste on classified sites and the location thereof (where applicable).

The First Aider must be made aware of the MSDS and trained in how to treat HCS incidents appropriately.

5.42 Hazardous Biological Substances (HBS)

Because of the possible exposure of workers to raw sewage the H&S Plan shall include details of the following:

- The conducting of Risk Assessment specifically aimed at exposure to HBA which shall include the following
 - Nature and dose of HBA
 - Where HBA may be present and in what physical form
 - The nature of work or process
 - Steps in the event of failure of control measures
 - The effect of the HBA
 - The period of exposure
 - Control measures to be implemented
- Monitoring of exposure of workers shall be conducted to establish whether any worker is infected with an HBA associated with working or being exposed to raw sewage, in terms of the following:
 - By an occupational medical practitioner
 - Before entering the site to establish the workers baseline
 - During the period of the contract the risk assessment indicate possible exposure
 - After completion of the contract
- Medical surveillance should such be required after the above-mentioned by an occupational health practitioner.
- Indication on how all records of assessment, monitoring, etc will be kept, taking into account that records have to be kept for a period of 40 years.
- How exposure to HBA is to be controlled
- The provision of personal protective equipment
- What information and training is to be provided to employees regarding the following:
 - The contents of these regulations
 - Potential risks to health
 - Control measures to be implemented
 - The correct use and maintenance of personal protective equipment
 - The results of the risk assessment.

5.43 Noise Induced Hearing Loss

Where noise is identified as a hazard the requirements of the NIHL regulations must be complied with and the following must be included / referred to in the Health and Safety Plan:

- Proof of training with regards to these regulations.
- Risk assessment done within 1 month of commencement of work.
- That monitoring carried out by an AIA and done according to SABS 083.
- Medical surveillance programme established and maintained for the necessary employees.
- Control of noise by referring to:
 - Engineering methods considered
 - Admin control (number of employees exposed) considered
 - Personal protective equipment considered/decided on
 - Describe how records are going to be kept for 40 years.

5.44 Explosives and Blasting

Not applicable on this project.

5.45 Personal Protective Equipment (PPE)

The Contractor shall carry out PPE or clothing needs analysis in accordance with his risk assessment, to determine the necessary PPE or clothing to be used during construction. The Contractor shall make provision and keep adequate quantities of SABS approved PPE or clothing on site at all times.

The Contractor must ensure that personnel are trained in the correct use of PPE to be used.

The Contractor must ensure that lost, stolen, worn out or damaged PPE is replaced as required and receipt signed for by employees on site.

5.46 Asbestos

Not applicable on this project.

Should asbestos be identified as a hazard whilst work is carried out, the following must be included in the health and safety plan:

- Notification to the Provincial Director in writing, prior to commencement of asbestos work.
- Proof of a structured medical surveillance programme, drawn up by an occupational medicine practitioner.
- Proof that an occupational health practitioner carried out an initial health evaluation within 14 days after commencement of work.
- Copies of the results of all assessments, exposure monitoring and the written inventory of the location of the asbestos at the workplace.
- Only proof that medical surveillance has been conducted and not the actual records itself since these areas of a confidential nature.
- How records are going to be kept safe for the stipulated period of 40 years.
- Proof that asbestos demolition (if applicable) is going to be done by a registered asbestos contractor and provide proof that a plan of work for such demolition is submitted to an Approved Asbestos Inspection Authority 30 days prior to commencement of the demolition.
- Provide proof that the plan of work was approved by the asbestos AIA and submitted to the provincial director 14 days prior to commencement of demolition work together with the approved standardised procedures for demolition work

5.47 Lead

Not applicable on this project.

Should lead be identified as a hazard whilst work is carried out, the following must be included in the health and safety plan:

- Proof that an occupational health practitioner carried out an initial health evaluation within 14 days after commencement of work.
- Copies of the results of all assessments, exposure monitoring and the written inventory of the location of the lead at the workplace.
- Only proof that medical surveillance has been conducted and not the actual records since these are of a confidential nature.
- How records are going to be kept safe for the stipulated period of 40 years.

5.48 Pressure Vessels (Including Gas Bottles)

Not applicable on this project.

5.49 Fire Extinguishers and Fire Fighting Equipment

The Contractor shall provide adequate, regularly serviced fire extinguishers located at strategic points on site. The Contractor shall keep spare serviced portable fire extinguishers. The Contractor shall have adequate persons trained or competent to use the Fire Fighting Equipment.

Safety signage shall be posted up in all areas where fire extinguishers are located.

5.50 Lifting Machinery and Tackle

Not applicable on this project.

5.51 Ladders and Ladder work

The Contractor shall ensure that all ladders are numbered and inspected regularly keeping record of inspections. It should be noted that Aluminium ladders are preferred to wooden ladders.

5.52 General Machinery

The Contractor shall comply with the Driven Machinery Regulations, which include inspecting machinery regularly, appointing a competent person to inspect and ensure maintenance, issuing PPE or clothing and training those that use machinery and enforce compliance.

5.53 Portable Electrical Tools

The Contractor shall ensure that use and storage of all explosive actuating fastening devices and portable electrical tools are in compliance with relevant legislation.

The Contractor shall consider that:

- A competent person undertakes routine inspections;
- Only authorised persons use the tools;
- There are safe working procedures applied;
- Awareness training is carried out and compliance is enforced at all times; and
- PPE and clothing is provided and maintained.

5.54 High Voltage Electrical Equipment

The Contractor shall ensure that, where the work is under, on or near high-voltage electrical equipment the Electrical Installation Regulations, together with safety instructions (Regulations of the Owner of the Equipment) are complied with. Such equipment includes:

- Eskom and the Local Authority equipment
- The Contractor's own power supply; and
- Electrical equipment being installed but not yet taken over from a Contractor by The Client.

5.55 Public Health and Safety

The Contractor shall ensure that each person working on or visiting a site, and the surrounding community, shall be made aware of the dangers likely to arise from on site activities and the precautions to be observed to avoid or minimize those dangers. Appropriate health and safety signage shall be posted at all times.

5.56 Night Work

Not applicable on this project.

5.57 Lighting

Where poor or lack of illumination is identified as a hazard the lighting regulations must be complied with and the following must be included in the H&S Plan:

- How lighting will be ensured/ provided where daylight is not sufficient and /or after hours are worked.
- Planned maintenance programme for replacing luminaries.
- Proof of illumination levels of artificial illumination equipment.

5.58 Environmental Conditions and Flora and Fauna

The Contractor must be mindful of adverse weather conditions upon the health and safety of the workforce. This includes inclement weather, strong wind, heat stress, extreme cold, etc. The Contractor's risk assessment process must take into account the risks associated with such weather conditions. The same is true when working in an environment where there is a risk to employees' health and safety from presence of poisonous flora, or wildlife (including bees, snakes, etc). The Contractor's risk assessment process must take these risks into account.

5.59 Occupational Health

Exposure of workers to occupational health hazards and risks are very common in any work environment, especially in construction. Occupational health hazards and risks exposure is a major problem and all Contractors are to ensure that proper health and hygiene measures are put in place to prevent exposure to these hazards and risks.

The occupational hazards and risks may enter the body in three ways:

- Inhalation through breathing e.g. cement dust;
- Ingestion through swallowing maybe through food intake;
- Absorption through the skin (pores) e.g. painting or use of thinners.

The contractor is required to ensure that all his personnel are medically fit prior to being allowed onto the work site.

All Contractors should ensure that Occupational Hygiene surveys are conducted as per the Occupational Health and Safety Act to ensure employees are not exposed to hazards. Risk Assessments should identify areas where surveys are to be conducted.

5.60 Suspended Platforms

Not applicable on this project.

5.61 Material Hoists

Not applicable on this project.

5.62 Explosive Actuated Fastening Device

Not applicable on this project

6. TRAINING, INSPECTIONS AND RECORDS

The Contractor must be aware of the following additional requirements:

What	When	Output
Awareness training (Toolbox Talks)	At least fortnightly and before hazardous work is carried out	Attendance Register
Health and Safety Committee Meetings	Monthly	Minutes signed by employer
Health and Safety Reports	Monthly	Report covering: a) Incidents / Accidents and investigation b) Non conformance c) Health and Safety Training d) HIRA Updates e) Internal & External Audits
General Inspections	As per Health and Safety Specifications & OHSA	Report of Health and Safety Specifications and OHSA compliance: a) Scaffolding b) Lifting Machinery c) Excavations d) Construction vehicle
General Inspections	Monthly	Covering: a) Fire Fighting Equipment b) Portable Electrical Equipment c) Hand Tools d) Ladders
Record Keeping	On-going	Covering: a) General Complaints b) Fines c) General Incidents d) MSDS e) Surveillance Medicals f) Inspection Registers g) Department of Labour Notices

ANNEXURE A

The contractor shall submit the info below in an Annexure 2 prior to construction commencement.

No	Item
1	H&S Policy signed by CEO of the company
2	Valid Letter of Good standing with the Compensation Commissioner or FEM
3	Signed Section 37(1) & (2)–Agreement with Mandatory
4	Proof of Notification of Construction Work
5	H&S Organogram team for the company
6	Risk assessment , identifying hazards and control measures on this project, rating the risk and identify control measures after outcomes.
7	List of PPE which will be used of project after risk assessment as a result of reducing risk on this project
8	List of correct equipment /tool/machinery to be used on this project
9	Copies of valid PDP/ Driver's license for drivers working of this project
10	Copy of medical report from Occupational Health & Safety Practitioner for workers all workers on site.
11	Health and Safety monthly meeting minutes, records submitted and H&S Monthly Inspection Report
12	Full Monthly records of all absenteeism due to injuries on site/working premises/disabled/doctor attendance/near miss incidents/sickness that are Occupational Health related
13	Traffic Management Plan
14	Emergency Rescue Plan
15	Contractor Wok Permit Policy and Substance Abuse Policy
16	Proof of Induction Training conducted
17	Safety Health & Environmental Management Plan
18	Fall Protection Plan

ANNEXURE B: APPOINTMENTS

The Contractor shall make the following appointments:

No	Description	No	Description
1	Chief Executive Officer (OSHACT 16(1))	17	Material Hoist Inspector (CR19(8)(a))
2	Contract Director/Manager (OSHACT 16(2))	18	Material Hoist Operator (CR19(6))
3	Construction Manager (CR 8(1))	19	Bulk Mixing Plant Supervisor (CR20(1))
4	Construction Supervisor (CR 8(7))	20	Bulk Mixing Plant Operator (CR20(2))
5	Assistant Construction Supervisor (CR 8(8))	21	Controller of Explosive Actuated Fastening Devices (CR21(2)(g)(1))
6	Construction Safety Officer (CR 8(5))	22	Construction Vehicle and Mobile Plant Operator (CR23(1)(d)(l))
7	Construction risk assessor (CR 9(1))	23	Controller of Temporary Electrical Installations (CR24('c))
8	Fall Protection Competent Person (CR 10(1))	24	Stacking Supervisor (CR28(a))
9	Traffic Safety Officer	25	Fire Extinguishing Equipment Inspector (CR29(h))
10	Safety Representative (where > 20 employees on site)	26	Fire Fighters (CR29(i))
11	Temporary work Designer (CR 12(1))	27	First Aider (GSR 3)
12	Temporary work Supervisor (CR12(2))	28	Fall Protection Plan Developer (CR 10(1)(a))
13	Excavation Supervisor (CR13(1)(a))	29	Incident Investigator (OSHACT 9(2))
14	Demolition Supervisor (CR14(1))	30	Competent Person – Confined Spaces (GAR 5(1))
15	Scaffold Supervisor (CR16(1))	31	Health and Safety technical Committee (CR 31)
16	Suspended Platform Supervisor (CR17(1))	32	General Machinery Competent Person (GMR 2)

7. PROJECT DETAILS

PROJECT DIRECTORY:		
Client	SOUTH AFRICAN NATIONAL PARKS 643 Leyds Street, Muckleneuk Pretoria, 0002 Contact: Ms A van Wyk	Tel: 012-426-5126 email: antionet.vanwyk@sanparks.org
Client Agent	I&SP Unit 643 Leyds Street, Muckleneuk Pretoria, 0002 Contact: Mr Marius Reinhardt	Tel: 082 796 9986 email: marius.reinhardt@sanparks.org

PROJECT DETAILS:
Description of Works Construction of an ablution facility and roof (canopy) at Vredesvallei Primary School
Anticipated Construction Duration 3 Months
Provisional Start Date November 2026
Completion Date January 2027

EXISTING ENVIRONMENT:	
Hazards particular to this project by virtue of location:	
Wild Animals: The site is located at Vredesvallei Primary School. Baboons, snakes wasps and bees are common in the area and care needs to be taken to avoid being bitten/stung by these animals. Workers must be aware at all times and the necessary precautions are to be taken. Full First Aid kits are to be maintained, and any used contents are to be replaced immediately.	
Members of public and children: All necessary steps to be taken to protect them from any dangers associated with the works being undertaken.	
Public Roads: A section of the fence is situated along a Road and care is to be taken here considering the public road and traffic. Reflective vests are mandatory for visibility.	
Overhead, Above Ground and Underground Services crossing the site:	
Overhead:	Not Applicable
Underground:	Not Applicable
Ground Level:	Not Applicable
Services Drawings available	No
Way leaves required:	Not Applicable
Permits required:	Not Applicable
Isolation required:	Not Applicable
Existing structures and surrounding land use (with a significant impact on Health and Safety): The site is in the school yard. Existing classroom buildings is on site. Care needs to be taken of school children on site. Construction areas must be properly fenced off with wire fence and shaded netting.	
Existing ground conditions and ground survey report: Existing ground conditions consist mainly of clear ground.	
Existing Traffic Systems:	
Conditions:	Tarred and paved roads
Restrictions to access:	School gate
Speed restrictions:	40 km/h

PROJECT HEALTH AND SAFETY REQUIREMENTS:

Significant health and safety hazards identified by Designer and Client Agent:

Working at Heights:

No

Accommodation of Traffic (Management Plan):

NA

Members of the Public:

The works are in a public area and the Principal Contractor is responsible for the safety of the workers as well as the public. The Principal Contractor will have to have sufficient warning & information signage to assist with the information to the public.

Wild animals:

The site is located at Vredesvallei school. Baboons, Apes, Baboons, snakes and scorpions are common at the school and care needs to be taken to avoid harm by these animals. Workers must be aware at all times and the necessary precautions are to be taken

Normal construction hazards expected are as follow:

Fencing

NOTE: Please refer to the end of this Health and Safety Specification for the baseline risk assessment of these risks.

ACTIVITIES REQUIRING APPROVED METHOD STATEMENTS

NA

ACTIVITIES REQUIRING PERMITS

Permit to Dig / Permit to Enter Excavations: Not applicable on this project

Permit to Work with Electricity: Not applicable on this project

Confined Space Permit: Not applicable on this project

Hot Works Permit: Not applicable on this project

Permit to work under Power Lines: Not applicable on this project

Blasting: Not applicable on this project

Temporary Works: Not applicable on this project

GENERAL ARRANGEMENTS

Restrictions on times: 7am – 5pm.

Access to site by Construction Vehicles: Yes, principal contractor to manage

Access to site by Construction workers & Visitors: NA

Site camp location and set up: Restrictions/requirements, storage areas and security to be advised in consultation with principal agent

Ablution and Welfare: Ablutions are available on site

Environmental Conditions: Contractor must take into account adverse weather conditions on site activities and implement control measures to mitigate risk

Induction Training: All workers to receive induction training prior to commencement on site. Special reference to SANParks EMP and Code of Conduct

PROTECTION OF SITE AGAINST UNAUTHORIZED ACCESS BY PUBLIC

Excavation Fencing: Note that excavations accessible to public, or adjacent to public roads / through fares, must have (1) barrier / fence of at least 1m in height, and (2) warning illuminates at night or when visibility is poor, or have other suitable precautionary measures if both of these are not practicable. The entire site is to be fenced off with ready fencing. There needs to be access control as well as security personnel on site at all times.

General Fencing of Site: Note that construction site must be **clearly demarcated** and have controlled access point.

Warning Notices: Construction site, Visitors to report to the site office. Pedestrian arrow signage towards the other side of the road, Fire Extinguisher, First Aid, Emergency Assembly area and Emergency telephone numbers. Reflective vests, safety boots and dust masks signage to be displayed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

The Client requires the Contractor to ensure that employees (and other under his/her control) wear the following minimum PPE:

Overalls:	Yes, required
Safety Harnesses:	Yes, required
Hard Hats:	Yes, required
Safety Footwear:	Yes, required
Reflective Vests:	Yes, required
Goggles / Gloves / ear and respiratory protection	As per job function
Specialist equipment:	As per job function

HAZARDOUS SUBSTANCES

The following materials and substances have, or may have, to be used in the works and are identified as potentially posing special health and / or safety hazards during the project. Appropriate measures will need to be specified for their control:

Petrol	Cement
Diesel	

BASELINE RISK ASSESSMENT

Baseline Risk Assessment Roads

PROJECT: SP-AU-0055 – RFQ CONSTRUCTION OF AN ABLUTION FACILITY AND ROOF (CANOPY) AT VREDESVALLEI SCHOOL

Risk Rating is measured by determining the Likelihood (L) and Consequence (C) and using the Matrix to determine the Risk Rating (R).

Risk Ranking below 9 is deemed Tolerable, between 10 and 16 is deemed Medium Risk and above 16 is deemed High Risk

Steps in operation	Ref No.	Hazard	Risk	Risk Rating			Controls Measures	Other Controls
				L	C	R		
General Onsite Activities	A1	Access to Site	Pedestrian & people equipment interaction causing injury	4	2	12	Occupational Health and Safety Act 24(1)	Area to be secured and barricaded / fenced
			Dust Inhalation	3	1	4	Hazardous Chemical Substances Regulation (36)(37)(38)	Induction Training & PPE
			Unauthorised entry	3	2	8	Occupational Health and Safety Act 12(2)	Site Visit Register, signage, Permit for vehicle access
			Slip,trip,and fall	3	2	8	Occupational Health and Safety Act 12(1)(b)(c)	Induction Training & PPE
	A2	Hand Loading and offloading of heavy machinery & equipment	Items rolling/slipping falling causing injury	4	2	12	General Machinery Regulations 2(1)	Induction training, PPE
			Incorrect Lifting procedure resulting in injury	3	2	8	General Machinery Regulations 3(2)	Induction training, Proper lifting procedure, PPE
	A3	Lack of employees facilities	Lack of drinking water, dehydration of workers	3	5	22	Construction Regulation 30(1)(a)	Provision of drinking water & Induction training
	A4	Stacking & Storage	Fall, slip resulting in potential injury/damage	4	3	17	Construction Regulation 28(d)	Storage plan, induction training and restricted access
			Obstructing critical equipment and walkways	4	3	17	Construction Regulation 27 (a)(c)(g)	Storage plan, induction training and restricted access
			Flammable liquids catching fire	3	3	13	Construction Regulation 25(a)(b)(c)	Storage plan, induction training and firefighting equipment
			Hazardous storage of materials	3	3	13	Hazardous Chemical Regulation(25)9A(2)	Storage plan, regular inspections
	A5	Handling of chemicals and fuels	Exposure	3	3	13	Hazardous Chemical Regulation 9A(1)(a-p)	PPE
			Inhalation	3	3	13	Hazardous Chemical Substances Regulation (36)(37)(38)	
			Burns to Skin	3	3	13	Hazardous Chemical Substances Regulations 9A(2); Material Data Sheet	
	A6	Temporary Low voltage Electrical installation	Exposure to live wires-electrocution	2	5	19	Construction Regulation 24(a)(b)	Lockable DB box, Inspection register

Steps in operation	Ref No.	Hazard	Risk	Risk Rating			Controls Measures	Other Controls
				L	C	R		
			Faulty earth leakage	2	5	19	SANS 10142	Competent person to do installation & inspection
			Short circuit causing fire	2	4	14	Construction Regulation 24(b)	Weekly inspection, Induction Training & Firefighting equipment
	A7	Issue of PPE	Incorrect PPE	4	2	12	General Safety Regulation 2(1)	PPE Register
	A8	Usage of PPE	Incorrect use of PPE	4	2	12	General Safety Regulation 3(2)	PPE Register, Induction Training, supervision
			Negligence to use PPE	4	2	12	General Safety Regulation 5	PPE Register, Induction Training, supervision
	A9	Adverse storms	Struck by lightning	2	5	19	Induction Training Safe Operation Procedure	Proper warning system
	A10	Adverse heat	Dehydration, Sunburn, heat stroke	3	4	18	Induction Training Safe Operation Procedure	Proper drinking water, PPE
	A11	Working in excessive winds	Exposure to dust	3	4	18	Hazardous Chemical Substances Regulation (36)(37)(38)	PPE
	A12	House keeping	Objects lying around can result in slip/fall	4	2	12	Construction Regulation 27(a)(b)	Regular cleaning of site
			Unhygienic conditions	3	3	13	Construction Regulation 27(d)	Induction Training
			Pollution of area	3	2	8	Construction Regulation 27(e)	Proper waste bins and waste removal
	A13	Fire prevention	Open Fires	3	3	13	Construction Regulation 29(a)	SANParks EMP & Code of conduct
			Inadequate fire fighting equipment	4	3	17	Construction Regulation 29(g)(h)	Inspection register, supervision
			Runaway fires	4	4	21	Emergency evacuation plan	SANParks EMP & Code of conduct
			Accidental Fires	3	4	18	Construction Regulation 29(a)(d)(iii)	Designated smoking areas
	A14	Environmental pollution	Pollution of ground, air, workspace	3	2	8	Environmental Regulation 6(d)	SANParks EMP & Code of conduct
			Littering	4	2	12	SANParks Environmental Management Plan	Induction Training, Provide proper trash bins
	A15	Working near hazardous animals incl snakes, spiders & scorpions	Poisons bites/ attack by large animals	3	3	13	SANParks Environmental Management Plan	Induction Training, SANParks ranger where required, Proper treatment in first aid kit

Steps in operation	Ref No.	Hazard	Risk	Risk Rating			Controls Measures	Other Controls
				L	C	R		
Transportation	C1	Transportation of employees	Interaction with other vehicle-collision	4	4	21	Construction Regulation 23(1)(b)(j)	Supervisor
			Equipment not roadworthy	3	1	4		Vehicle checklist, vehicle must meet required standards
			Equipment not licensed	3	1	4	Construction Regulations 23(a)(b)	Supervision and monitor
			Operator of vehicle transporting employees not licensed and authorized	3	1	4	Construction Regulation 23(2)(i)(j)	Supervision and monitor if Driver has Valid PDP
			Vehicle not equipped to transport employees	3	1	4	Construction Regulation 23(d)(i)(j)	Vehicle checklist, vehicle must meet required standards
			Not Adhering traffic legislation	3	1	4	Construction Regulation 23(2)(j)	Supervision, implement fines
	C2	Transportation of material or equipment with people	Material/equipment fall from vehicle	4	4	21	Construction Regulation 23(g)(h)	Properly secure all goods
			Potential accident/collision	4	4	21	Construction Regulation 23(2)(g)(h)(j)	Induction Training, Reflective vests, safe work area
	C3	Towing a Trailer	Vehicle accident	4	4	21	Construction Regulations 23(e); Occupational Health and Safety Act 24(1)(c)(iii)(iv)	Awareness, trained operator
			Towing coupler failure	3	3	13	Construction Regulation 22(e)	Inspection Register
Hand Tools	D1	Injury Due to	Incorrect tools used	4	3	17	Hand tool register, Induction Training,	Supervision
			Defective tools	4	3	17	Safe Operation Procedure	Supervision
			Struck by flying debris	3	3	13	Safe Operation Procedure	PPE
	D2	Hand Drills	Clothing being grabbed by rotating drill	3	3	13	Safe Operation procedure, Toolbox Talks Electrical Machinery Regulations 10(3)(4)	PPE, Supervision
			Unsecured work piece rotating with drill	3	3	13		PPE, Supervision
			Shaving flying into eyes	3	3	13		PPE, Supervision

Steps in operation	Ref No.	Hazard	Risk	Risk Rating			Controls Measures	Other Controls
				L	C	R		
			Accidental injury	4	3	17	Electrical Machinery Regulations 10(4)	PPE, Supervision
			Electrocution	3	5	22	Electrical Machinery Regulations 10(1) (a)(b)	Tool inspection register
	D3	Angle Grinder	Cutting disc cracked and breaks	3	3	13	Safe Operation procedure, Toolbox Talks	PPE, Supervision
			Shaving flying into eyes	3	3	13	Electrical Machinery Regulations 10(3)	PPE, Supervision
			Exposure to noise	3	3	13	Noise Induced Hearing Loss Regulations (7)(1)(a)(b)(c)(d)	PPE
			Vibration	2	2	5	Safe Operation procedure, Toolbox Talks	
			Accidental injury	4	3	17	Safe Operation procedure, Toolbox Talks	PPE, Supervision
			Electrocution	3	5	22	Electrical Machinery Regulations 10(1) (a)(b)	Tool inspection register
	D4	Other electrical portable hand tools	Electrocution	3	5	22	Electrical Machinery Regulations 10(1) (a)(b)	Tool inspection register, inspect extension cord
			Exposure to noise	3	3	13	Noise Induced Hearing Loss Regulations (7)(1)(a)(b)(c)(d)	PPE
			Vibration	2	2	5	Safe Operation procedure, Toolbox Talks	
			Accidental injury	4	3	17	Safe Operation procedure, Toolbox Talks	PPE, Supervision
			Shaving flying into eyes	3	3	13	Safe Operation procedure	PPE, Supervision
Site Clearance	E1	Removal of waste	Moving machinery accident	4	4	22	Construction Regulation 23(1)(b)(c)	Reflective vests, restricted access, induction training
			Waste material falling of vehicle	3	3	13	Construction Regulations 23(h)	Secure load, stay within maximum vehicle load capacity
			Dust Inhalation	3	2	8	Hazardous Chemical Substances Regulation (36)(37)(38)	Induction Training & PPE
Excavation & backfilling	F1	Hand Digging of holes/trenches	Injury due to defective tools	4	3	18	Construction Regulation 13(a)	Hand tool register, Induction Training
			Injury due to improper work method	4	3	18		Induction training, supervision
			Trip/fall into holes	3	3	13		Demarcate area, induction training, PPE

Steps in operation	Ref No.	Hazard	Risk	Risk Rating			Controls Measures	Other Controls
				L	C	R		
	F2	Hitting of electrical cable and services	Electrocution	3	5	22	Construction Regulation 24(a)(b)(c)	Induction training, Site map indicating existing services
Concrete	I1	Manual Mixing	Cement dust inhalation	3	2	8	Hazardous Chemical Substances Regulations 8(a)(b)(c)	Material Safety Data Sheet, PPE, Supervision
			Hazardous substance contact - dry cement mix	3	3	13	Hazardous Chemical Substances Regulations 9A(2); 2; and Material Data Sheet	PPE, Induction Training
			Spillage/ pollution	3	3	13		PPE, Concrete mixing sheet
			Injury during mixing/ cement burns	3	3	13		Induction Training, supervision,PPE
	I2	Exposure to Hazardous chemical substances	Exposure	3	3	13	Hazardous Chemical Substances Regulations 10(1)(a)(b)(f)(3)	PPE
			Burns to Skin	3	3	13		
			Inhalation	3	3	13		
Working at heights	J1	Climbing up and down equipment	Fall from equipment	4	3	17	General Safety Regulations (6)	Induction, PPE, Fall Protection plan
			Equipment used for incorrect purposes	3	3	13		Induction training, supervision
			Equipment failure resulting in injury/damage	3	3	13		Inspection register
Construction Activiies	L1	Electrical cable connections/ electrical installations	Electrocution	3	5	22	Construction Regulation 24(a)	Competent person to do installation & inspection
			Dangerous/unsafe cable Joints	3	3	13	Construction Regulation 24(a)(b)(d)(e)	Supervision
			Accidental switch on while work in progress	3	5	22		Apply lockout procedure before doing connections
			Inadequate material used, causing short circuit/fire	3	3	13		SABS approved material
			Short circuit can blow up when switching	3	5	22		PPE

LIKELIHOOD RATING	DESCRIPTION	FREQUENCY
5 - Almost certain	Expected to occur in most circumstances	Recurring event e.g. More than once per month.
4 - Likely	The event will probably occur	Event that may occur frequently once per year
3 - Possible	Might occur occasionally	Event that may occur. Once in 3 years
2 - Unlikely	Could happen some time	Event that is unlikely to occur. Once in 10 years
1 - Rare	May happen only in exceptional circumstances	Event that is very unlikely to occur

IMPACTS				
CONSEQUENCE RATING	ENVIRONMENTAL	SAFETY	HEALTH	FINANCIAL IMPACT
5 - Critical	Permanent environmental damage to an extensive area	Fatality. Permanent disabling injuries.	Life threatening or permanently disabling illness.	>R 500 000
4 - Major	Long term environmental damage extending to a large area requiring high level intervention	Severe irreversible damage to one or more persons. Lost Time Injury greater than 10 days.	Severe and irreversible health effects or disabling illness.	R100 000 –R499 000
3 - Moderate	Short term environmental damage requiring some intervention	Reversible injury or moderate irreversible impairment. Less than 10 days lost time	Severe but reversible health effects. Results in a lost time illness of less than 10 days.	R10 000 - R99 999
2 - Minor	Short term environmental damage affecting a small area easily remediated	Medically treated injury. Does not lead to restricted duties.	Reversible health effects of concern that results in medical treatment but does not lead to restricted duties.	R1 000 – R9 999
1 - Insignificant	Minimal environmental damage affecting a very small area immediately remediated	Single minor injury to one person. First aid or no treatment required. No lost time.	Reversible health effects of minor concern only requiring minor medical treatment.	R0 - R1 000

LIKELIHOOD							
CONSEQUENCE			1	2	3	4	5
			RARE	UNLIKELY	POSSIBLE	LIKELY	ALMOST CERTAIN
	1	INSIGNIFICANT	1	2	3	4	5
	2	MINOR	2	4	6	8	10
	3	MODERATE	3	6	9	12	15
	4	MAJOR	4	8	12	16	20
	5	CRITICAL	5	10	15	20	25

Risk rating	Risk magnitude	Response
16 - 25	High	Immediate action required to reduce risk. Introduce hard barriers and adequate controls to reduce risk. Control hazards/ Monitor regularly. Ensure the risk has been eliminated so far as is reasonably practicable
9 - 15	Moderate	Urgent attention to improve controls & reduce inherent risks. Monitor systems controls, implement controls, or minimised in accordance with the hierarchy of controls so far as is to reduce the risk.
0 - 8	Low	Tolerable risk level. Carry out activity following review and implementation of effective risk controls in accordance with the hierarchy of controls. Ongoing monitoring and management required by employees and line supervisors to use safe working procedure

DEFINITIONS		Probability (1 - 5)		Determining your prioritisation rating (A/P)			
Hazard	Is a condition, activity, object or substance that has the ability to cause harm.	1	Highly improbable	%	Prioritization indicator	Action	
Risk	Is the chance or likelihood of a hazard causing harm or damage.	2	Less than even chance	1% - 20%	E	Monitor the situation	
Probability	The likelihood of a specific outcome/consequence	3	Improbable	21% - 40%	D	Within six months	
Frequency	A measure of the rate of occurrences of an event expressed as the number of occurrences at a given time	4	Probable	41% - 60%	C	Within one month	
Severity	Degree or harm of the outcome/consequence	5	Inevitable	61% - 80%	B	Within one week	
This HIRA does not necessarily cover all hazards associated with the operation / equipment. It is designed as a guide to compliment the Operational Specific HIRA, which must be carried out for each task forming part of an operation.				81% - 100%	A	Immediate	
Frequency (1 - 5)		Severity (1 - 15)					
1	Hazard arise 2 yearly	1	Superficial injuries, minor cuts and bruises, nuisance and irritations (e.g. eye irritations & headaches), ill health leading to temporary discomfort.	6	Laceration, burns, concussion, serious sprains, minor fractures, deafness, dermatitis, asthma, work related upper limb disorder, ill health leading to permanent minor disablement.	11	Amputation, major fractures, poisoning, multiple injuries, fatal injuries, Occupational cancer, other severely life shortening diseases, acute fatal diseases.
2	Hazard arise yearly	2		7		12	
3	Hazard arise every month	3		8		13	
4	Hazard arise every week	4		9		14	
5	Hazard permanently present	5		10		15	

INITIALS	SURNAME	DESIGNATION	CONTACT DETAILS	HIRA TRAINING	SIGNATURE	DATE
M	Reinhardt	Regional Project Manager	082 796 9986	Yes		
Z	Mkhonza	CHSO: Coordinator Compliance	012 426 5199	Yes		

10. HEALTH AND SAFETY SPECIFICATION ACKNOWLEDGEMENT RECEIPT

Contractor's Acknowledgement:

I, _____ representing
 _____ (Contractors), have satisfied
 myself with the content of this Health and Safety Specification and have made the relevant provision
 under my Preliminary & General Section for any and all costs involved to ensure compliance of this
 Specification and shall we be the successful contractor, we shall ensure that our employees and
 contractors on site comply with the requirements of this documents, our safety documentation and
 health and safety legislation.

Signature of Contractor:

Date:

Comments:

PREAMBLES FOR TRADES

The General Preambles for Trades 2017 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 said General Preambles will be entertained

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

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications

STRUCTURE OF THIS PRELIMINARIES BILL

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

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

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

PRICING OF PRELIMINARIES

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

Carried to Collection

Section No. 1
Bill No. 1
Preliminaries
RUBIQUANT QUANTITY SURVEYORS

R

SECTION A: PRINCIPAL BUILDING AGREEMENT

Interpretation (A1-A7)

1 Clause 1.0 - Definitions and interpretation

Pricing of bills of quantities

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

Items left unpriced will be deemed to be covered in prices against other items throughout these **bills of quantities** and no claim for any extras arising out of the **contractor's** omission to price any item will be entertained

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

Abbreviated descriptions

The items in these **bills of quantities** utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the **contractor** shall, before submission of his tender, call for a written directive from the **principal agent**, failing which it shall be assumed that the **contractor** has allowed in his pricing for materials and workmanship in terms of international best practice

Carried to Collection

Section No. 1

Bill No. 1

Preliminaries

RUBIQUANT QUANTITY SURVEYORS

R

Legal status of contractor

If the **contractor** constitutes a joint venture, consortium or other unincorporated grouping of two or more persons then:

1. These persons are deemed to be jointly and severally liable to the **employer** for the performance of this **agreement**
2. These persons shall notify the **employer** of their leader who has assigned authority to bind the **contractor** and each of these persons
3. The **contractor** shall not alter its composition or legal status without the prior written consent of the **employer**

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

Item

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

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

Item

3 Clause 3.0 - Offer and acceptance

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

Item

4 Clause 4.0 - Cession and assignment

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

Item

5 Clause 5.0 - Documents

Value Added Tax

Provision is made in the summary page of these **bills of quantities** for the inclusion of Value Added Tax (VAT)

The **principal agent** shall decide which portion of the **priced document** may be used as a specification of **materials and goods** or methods, if any

Carried to Collection

R

Section No. 1

Bill No. 1

Preliminaries

RUBIQUANT QUANTITY SURVEYORS

	Electronic issue of drawings All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6] F:..... V:..... T:.....				
6	Clause 6.0 - Employer's agents F:..... V:..... T:.....	Item			
7	Clause 7.0 - Design responsibility F:..... V:..... T:.....	Item			
	<u>Insurances and securities (A8-A11)</u>				
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item			
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item			
10	Clause 10.0 - Insurances Clause 10.2 is amended by replacing the word employer with the word contractor. The Contractor will be liable for all insurances. All risk insurance must be for contract value plus 20% F:..... V:..... T:.....	Item			
11	Clause 11.0 - Securities F:..... V:..... T:.....	Item			
	<u>Execution (A12 - A17)</u>				
12	Clause 12.0 - Obligations of the parties Statutory and other notices				
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				R	

	The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto F:..... V:.....T:.....			
13	Clause 13.0 - Setting out F:..... V:.....T:.....	Item		
14	Clause 14.0 - Nominated subcontractors F:..... V:.....T:.....	Item		
15	Clause 15.0 - Selected subcontractors F:..... V:.....T:.....	Item		
16	Clause 16.0 - Direct contractors Attendance on direct contractors In respect of direct contractors the contractor shall: F:..... V:.....T:.....	Item		
17	Clause 17.0 - Contract instructions Site instructions Instructions issued on site are to be recorded in a site instruction book which is to be supplied and maintained on site by the contractor F:..... V:.....T:.....	Item		
18	<u>Completion (A18 - A24)</u> Clause 18.0 - Interim completion	N/A		
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19	Clause 19.0 - Practical completion F:..... V:.....T:.....	Item		
20	Clause 20.0 - Completion in sections F:..... V:.....T:.....	Item		
21	Clause 21.0 - Defects liability period and final completion F:..... V:.....T:.....	Item		
22	Clause 22.0 - Latent defects liability period F:..... V:.....T:.....	Item		
23	Clause 23.0 - Revision of the date for practical completion Substitution of materials and goods The removal or substitution of any materials and goods which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value [17.1.8; 23.1 & 2] F:..... V:.....T:.....	Item		
24	Clause 24.0 - Penalty for late or non-completion F:..... V:.....T:..... <u>Payment (A25 - A27)</u>	Item		
25	Clause 25.0 - Payment			
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Prices submitted

Where prices are submitted by the **contractor** or **subcontractor** during the progress of the **works** in respect of **contract instructions** or in regard to a claim under the terms of this **agreement** 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

Material and goods stored off site

The inclusion of materials and goods stored off site in the amount authorized for payment in terms of clause 25.3.2 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 25.4 is therefore not applicable.

Payment

Payment will be done within **21 days** after certification of interim payment certificates.

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

Item

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

Fluctuations in costs

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [26.9.5]

Tenant installation/user requirements delayed

There is a possibility that certain works related to tenant installation/user requirements may have to be delayed and may consequently not be executed prior to **practical completion**

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Should the **contractor** be instructed to do so he shall execute this work under the conditions pertaining to this **agreement** on the basis that a separate amount for **preliminaries** appurtenant to this work (if applicable) is agreed to between the **contractor** and the **principal agent** and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of **practical completion** of the **works**

The **employer** reserves the right to omit such work without compensation to the **contractor** for loss of profit or any other loss which the **contractor** may suffer as a result of such omission

Cost of claims

All costs incurred by the **contractor** in the preparation of claims shall be borne by the **contractor**. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this **agreement** [30.6 & 7] from making a determination on costs

Claims from subcontractors

The **contractor** shall review, assess and adjudicate any claims received by him from any **subcontractor** and thereafter submit same to the **principal agent** with a recommendation in order to assist the **principal agent** in adjudicating the claim [26.6]

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

27 Clause 27.0 - Recovery of expense and/or loss

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

Suspension and termination (A28 - A29)

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

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

29 Clause 29.0 - Termination

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

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	<u>Dispute resolution (A30)</u>			
30	Clause 30.0 - Dispute resolution F:..... V:.....T:.....	Item		
31	<u>Agreement</u> The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:.....T:.....	Item		
32	<u>Contract data</u> Tenderer's selections Before submission of his tender the contractor is to complete the tenderer's selections in the contract data F:..... V:.....T:.....	Item		
	<u>SECTION B: GENERAL PRELIMINARIES</u>			
	<u>Definitions and interpretation (B1)</u>			
33	Clause 1.1 - Definitions F:..... V:.....T:.....	Item		
34	Clause 1.2 - Interpretation F:..... V:.....T:.....	Item		
	<u>Documents (B2)</u>			
35	Clause 2.1 - Checking of documents F:..... V:.....T:.....	Item		
36	Clause 2.2 - Provisional bills of quantities F:..... V:.....T:.....	Item		
37	Clause 2.3 - Availability of construction information			
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	F:..... V:.....T:.....	Item		
38	Clause 2.4 - Ordering of materials and goods			
	F:..... V:.....T:.....	Item		
	<u>Previous work and adjoining properties (B3)</u>			
39	Clause 3.1 - Previous work - dimensional accuracy			
	F:..... V:.....T:.....	Item		
40	Clause 3.2 - Previous work - defects			
	F:..... V:.....T:.....	Item		
41	Clause 3.3 - Inspection of adjoining properties			
	F:..... V:.....T:.....	Item		
	<u>The site (B4)</u>			
42	Clause 4.1 - Handover of site in stages			
	F:..... V:.....T:.....	Item		
43	Clause 4.2 - Enclosure of the works	Item		
	The Contractor will be responsible to safely enclose and separate his working area as well as any lay down areas to prevent unauthorised access from the public or Client's employees at all times.			
	F:..... V:.....T:.....			
44	Clause 4.3 - Geotechnical and other investigations			
	F:..... V:.....T:.....	Item		
45	Clause 4.4 - Encroachments			
	F:..... V:.....T:.....	Item		
46	Clause 4.5 - Existing premises occupied			
	F:..... V:.....T:.....	Item		
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47	Clause 4.6 - Services - known F:..... V:.....T:..... <u>Management of contract (B5)</u>	Item		
48	Clause 5.1 - Management of the works F:..... V:.....T:.....	Item		
49	Clause 5.2 - Progress meetings F:..... V:.....T:.....	Item		
50	Clause 5.3 - Technical meetings F:..... V:.....T:..... <u>Samples, shop drawings and manufacturer's instructions (B6)</u>	Item		
51	Clause 6.1 - Samples of materials F:..... V:..... T:.....	Item		
52	Clause 6.2 - Workmanship samples F:..... V:.....T:.....	Item		
53	Clause 6.3 - Shop drawings F:..... V:.....T:.....	Item		
54	Clause 6.4 - Compliance with manufacturer's instructions F:..... V:.....T:..... <u>Deposits and fees (B7)</u>	Item		
55	Clause 7.1 - Deposits and fees F:..... V:..... T:.....	Item		
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<u>Temporary services (B8)</u>				
56	Clause 8.1 - Water (Option C) F:..... V:..... T:.....	Item		
57	Clause 8.2 - Electricity F:..... V:..... T:.....	Item		
58	Clause 8.3 - Ablution and welfare facilities F:..... V:..... T:.....	Item		
59	Clause 8.4 - Communication facilities F:..... V:..... T:.....	Item		
<u>Prime cost amounts (B9)</u>				
60	Clause 9.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item		
<u>Attendance on subcontractors (B10)</u>				
61	Clause 10.1 - General attendance F:..... V:..... T:.....	Item		
62	Clause 10.2 - Special attendance F:..... V:..... T:.....	Item		
<u>General (B11)</u>				
63	Clause 11.1 - Protection of the works F:..... V:..... T:.....	Item		
64	Clause 11.2 - Protection/isolation of existing works and works occupied in sections F:..... V:..... T:.....	Item		
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65	Clause 11.3 - Security of the works F:..... V:.....T:.....	Item		
66	Clause 11.4 - Notice before covering work F:..... V:.....T:.....	Item		
67	Clause 11.5 - Disturbance Disturbance All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever F:..... V:.....T:.....	Item		
68	Clause 11.6 - Environmental disturbance Controlling all forms of pollution The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution emanating from the site during the construction period due inter alia to noise, artificial light, wind-blown sand, dust, deposits of mud, etc The contractor is to ensure that all roads which border the site and are used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works			
69	Clause 11.7 - Works cleaning and clearing F:..... V:.....T:.....	Item		
70	Clause 11.8 - Vermin F:..... V:.....T:.....	Item		
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71	Clause 11.9 - Overhand work F:..... V:.....T:.....	Item		
72	Clause 11.10 - Tenant installations F:..... V:.....T:.....	Item		
73	Clause 11.11 - Advertising F:..... V:.....T:.....	Item		
<u>SECTION C: SPECIFIC PRELIMINARIES</u>				
74	Warranties for materials and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or executing the work and shall deliver same to the principal agent on final completion of the contract The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor F:..... V:.....T:.....	Item		
75	Overtime Should overtime be required to be worked for any reason whatsoever, the cost of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, prior to execution thereof, that costs for such overtime are to be borne by the employer F:..... V:.....T:.....	Item		
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76 Cooperation of the **contractor** for cost management

It is specifically agreed that the **contractor** accepts the obligation of assisting the **principal agent** in implementing proper cost management. The **contractor** will be advised by the **principal agent** of all cost management procedures which will be implemented to ensure that the **contract value** does not exceed the budget

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

Item

77 Overloading

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

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

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HEALTH AND SAFETY

Clause 2.0 - Law, regulations and notices.

Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of the latest Construction Regulations, issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works (refer to Document 11 for a copy of the relevant specification) 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 provisions of the aforementioned health and safety specification

[7.1] A formal Risk Analysis as well as Health and Safety Plan must be submitted as soon as possible, but not later than seven (7) days after appointment.

Should the contractors identify any other items that they need to price to comply, they should allow for such items in the space allowed for below. The Employer will not accommodate any additional claims due to this.

78 Requirements regarding the Health and Safety Plan/file as per clause

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

Item

79 Requirements regarding internal OHS audits and recovery plans as per clause

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

Item

80 Requirements regarding Health and Safety Training as per clause

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

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81 Requirements regarding Health and Safety Site requirements

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

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82	Administration clause F:..... V:..... T:.....	Item		
83	Health and Safety programme clause F:..... V:..... T:.....	Item		
84	Personal protective equipment for employees and visitors clause F:..... V:..... T:.....	Item		
85	Provision of employees site facilities clause F:..... V:..... T:.....	Item		
86	OHS signage clause F:..... V:..... T:.....	Item		
87	OHS notice board clause F:..... V:..... T:.....	Item		
88	OHS training clause F:..... V:..... T:.....	Item		
89	First aid station and fire-fighting equipment clause F:..... V:..... T:.....	Item		
90	Medical certificates of fitness clause F:..... V:..... T:.....	Item		
91	Requirements regarding Project Risk Assessment and management clause F:..... V:..... T:.....	Item		
92	Requirements on site listed hazards baseline risk assessment as clause F:..... V:..... T:.....	Item		
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93	Other items identified by the contractor. Additional financial provision, if any, for the requirements of the Occupational Health and Safety not covered in the above - please specify per line
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Describe:

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

SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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RUBIQUANT QUANTITY SURVEYORS

<u>EXCAVATIONS</u>					
<u>Excavation in earth not exceeding 2 m deep</u>					
1	Reduce levels under floors	m ³	15		
2	Trenches	m ³	24		
<u>Extra over excavation in earth for excavation in</u>					
3	Soft rock	m ³	2		
4	Hard rock	m ³	1		
<u>Extra over all excavations for carting away</u>					
5	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m ³	22		
<u>Risk of collapse of excavations</u>					
6	Sides of excavations not exceeding 1,50m deep	m ²	94		
<u>Keeping excavations free of water</u>					
7	Keeping excavations free of water		Item		
<u>FILLING, ETC.</u>					
<u>Earth filling with excavated material compacted to 93% Modified AASHTO density in 150mm layers</u>					
8	Backfilling to trenches, holes, etc	m ³	12		
<u>Gravel filling (G5) supplied by the contractor in accordance with SABS 1200 DM, compacted to 95% Mod AASHTO density in 150mm layers</u>					
9	Under floors, steps, pavings, etc.	m ³	15		
<u>Coarse river sand filling supplied by the contractor</u>					
10	Under floors, etc.	m ³	3		
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Earthworks					
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Earthworks

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RUBIQUANT QUANTITY SURVEYORS

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Section No. 2
Bill No. 2
Concrete, Formwork and Reinforcement
RUBIQUANT QUANTITY SURVEYORS

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.

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

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

CONCRETE

REINFORCED CONCRETE

25 Mpa/19mm Concrete poured around reinforcement:

1	Stripfootings	m ³	8
2	Surfacebed	m ³	7

TEST BLOCKS

3	Making and testing set of three of 150 x 150 x 150mm concrete strength test cubes (Provisional)	Sets	9
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CONCRETE SUNDRIES

Finishing surfaces of concrete smooth with a power float

4	Surface beds, slabs, etc.	m ²	66
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Section No. 2
Bill No. 2
Concrete, Formwork and Reinforcement
RUBIQUANT QUANTITY SURVEYORS

MOVEMENT JOINTS, ETC.

Isolation Joints

5	100mm isolation joint consisting of two part 30mm polysulphide sealer, two part 70mm closed cell expanded polyethelene foam joint filler and approved bond breaker according to Engineer's specification	m	25
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FORMWORK

ROUGH FORMWORK (DEGREE OF ACCURACY II)

GENERAL FORMWORK

General formwork

6	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	34
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REINFORCEMENT (Provisional)

Fabric reinforcement

7	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m ²	66
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Mild steel reinforcement

8	8mm to 12mm Diameter rods	t	0.40
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High tensile steel reinforcement

9	10mm to 32mm Diameter bars	t	0.60
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Concrete, Formwork and Reinforcement

RUBIQUANT QUANTITY SURVEYORS

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Brick reinforcement

Descriptions of brickwork shall be deemed to include for steel reinforcing fabric as specified every fourth course in superstructure and every 2nd course in foundations. Additional reinforcement in lintels, etc are measured separately

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc

SAMPLES

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site

LIQUID WATERPROOFING ADMIXTURE FOR MORTAR

All classes of mortar should be supplemented with "Sika-1" liquid waterproofing admixture at a rate of 1,5 litre per 50kg cement

FOUNDATION BRICKWORK

Brickwork of Corobrik (14MPa nominal compressive strenght) NFX loadbearing Imperial brick, size 222x106x73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class 1, 3 :1 cement mortar:

1	One brick walls	m ²	16
2	Half brick walls	m ²	18

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Masonry
RUBIQUANT QUANTITY SURVEYORS

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SUPERSTRUCTURE BRICKWORK

Brickwork of Corobrik (14MPa nominal compressive strength) NFX loadbearing Imperial brick, size 222x106x73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class 1, 3 :1 cement mortar:

3	Half brick walls	m ²	50
4	Half brick wall in beam filling	m ²	20
5	One brick walls	m ²	83

Brickwork reinforcement

6	75mm Wide reinforcement built in horizontally	m	816
7	150mm Wide reinforcement built in horizontally	m	668

Prestressed lintels

8	100 x 70mm Lintels in lengths not exceeding 3m	m	28
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Turning pieces

9	280mm Wide turning piece to lintels, etc	m	19
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Galvanised hoop iron cramps, ties, etc

10	40 x 1,6mm "Tibond" wall tie strips welded to steel column and with ties bent out and built into brickwork	m	152
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FIBRE-CEMENT WINDOW CILLS

Fibre Internal cills in single lengths bedded in class 1 mortar including metal fixing lugs etc

11	15 x 150mm Wide sills set flat and slightly projecting	m	17
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Bill No. 3

Masonry

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Masonry

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Masonry

RUBIQUANT QUANTITY SURVEYORS

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Item No		Quantity	Rate	Amount
	<u>SECTION NO. 2</u>			
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	NOTE: Tenderers are advised to study the Preambles for Trades before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Items, materials or methods</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect			
	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>Gundle Plastics – damp-proof course shall consist of BRICKGRIP DPC 3 LAYER 250® bearing SABS 952 -1: Type B well lapped at joints and intersections and bedded and joined in cement mortar.</u>			
1	In walls	m ²	13	
	<u>One layer of USB Green 3 LAYER 170® damp proof sheeting bearing SABS 952 - 1: 2010 shall be laid in the widest practical widths to minimize joints and shall be turned up, dressed to load bearing walls, and lapped with BRICKGRIP SABS DPC. Gunplas USB Green 3 LAYER 170® may be lapped according to manufacturer's specifications</u>			
2	Under surfacebed	m ²	74	
	CARRIED FORWARD TO SUMMARY OF SECTION No: 2			
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	Waterproofing			
	RUBIQUANT QUANTITY SURVEYORS			
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ROOF INSULATION

**Sisalation 405' heavy industrial grade reinforced
aluminium foil and polyethylene insulation**

4	Insulation laid taut over purlins (at maximum 760mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires	m ²	45
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Section No. 2
Bill No. 5
Roof Coverings, etc
RUBIQUANT QUANTITY SURVEYORS

Section No. 2

Bill No. 5

Roof Coverings, etc

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Roof Coverings, etc
RUBIQUANT QUANTITY SURVEYORS

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ROOFS, ETC

H2 (CCA) or similar approved Treated Sawn South African Softwood, grade 7

Plate nailed timber roof trusses as per detail drawings included at the back of these Bills of Quantities

- 1 Roof construction of 35m² (measured on flat) double pitched roof at ground floor level as per attached drawing. Roof to receive new roof sheeting (measured elsewhere.) Prices to include all material and labour cost which includes trusses, wallplates, windbracing, purlins, etc. and erection to engineers approval. A valid roof certificate must be submitted to the engineer before the placing of sheeting.

No

1

EAVES, VERGES, ETC.

Pressed fibre cement

- 2 12 x 225 mm Everite, or equal and approved, medium density plain ungrooved Nutec Barge and fascia boards, fixed to 38x38mm tilter batten and 38x38mm support battens between rafters, twice screwed with 12x40 mm brass countersunk screws to timber trusses, including PVC H-profile jointing strips between boards and PVC H-profile fascia corner joiners at board ends.

m

43

DOORS, ETC

Solid Doors, door hung to wooden frame

- 3 40mm Door 813 x 2032mm high

No

3

Semi-solid interior door with commercial veneer and hardwood edging

- 4 40mm Door 813 x 2032mm high

No

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Carpentry and Joinery
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CORNICE

Gypsum Cornice

3	75mm Gypsum coved cornice nailed to ceiling and wall	m	55
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CEILING INSULATION

135mm Aerolite insulation (Non-combustible and Class 1 fire index rating) laid on top of the ceiling, ensuring that it fits tightly between the tie beams. Aerolite should be cut 50mm more than distance between the tie beams. Cut Aerolite out around down lights. To be read in conjunction with Glass wool handling Instructions in the Installation methodology.

4	Insulation laid on top of timber pulins with and including galvanised straining wires	m ²	35
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Ceilings, Partitions and Access Flooring
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LOCKS

"Ironware" or other approved

2	IW2018CP - Ironware 76mm cylinder Deadlock CP	No	3
3	IW2081NPMK- Ironware 43mm Single Cylinder lock - Master Keyed	No	3
4	IW1906CYLSS - Calini Round Cylinder Escutcheon plate Stainless Steel	No	3
5	IW2031 - Ironware WC Dead lock with 8mm follower	No	6
6	IW1921 - Ironware 50mm round WC indicator set	Sets	6.0

HANDLES

"Calini" or other approved

7	IW1320/170 - Calini Round pull handle: Length - 170mm, CTC - 150mm, Post - 19mm, Stainless Steel.	No	9
8	PPH1.2*17*17CTC150 - 1.2mm stainless steel Push plate for D handle, size 170x170mm CTC 150mm.	No	9

SUNDRIES

9	IW5001SC - Ironware round floor mounted door stop	No	3
10	IW5003BLK - Ironware rubber doorstop black C/W screws	No	6

BATHROOM FITTINGS

11	Franke BS677 Grade 304, 0.8mm thick (18/10) satin stainless steel toilet roll holders, plugged and screwed to the wall with stainless steel screws or other approved	No	7
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Ironmongery

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ALUMINIUM WINDOWS, DOORS, ETC

Note: Tenderers are referred to architect's drawing attached to these bills of quantities for tender purposes

Windows and doors

Doors and windows to be of the types described, and manufactured by and in accordance with the standard specification of "Aluminium City", or other approved hereinafter referred to as the Manufacturer.

After manufacture, the Manufacturer shall be responsible for the delivery to site, unloading, placing in temporary storage, setting up and fixing in position, the supply of glass and glazing complete, sealant pointing, application and removal of protection tape and cleaning and servicing on completion of all aluminium doors and windows. Cleaning of glass before handing over shall be the responsibility of the Contractor as all glass is to be glazed clean by the manufacturer.

Glazing

Doors and windows are to be glazed with glass as described. Glazing may be either factory or site glazed and shall be executed by the Manufacturer who must ensure that glass is clean and free from any defects on completion of glazing

Fixing

All doors and windows are to be fixed in position by the Manufacturer. All must be perfectly plumb and shall be strutted and braced as necessary to prevent distortion

Pointing etc.

All doors and windows shall be waterproofed with "Sondor" or other approved wax impregnated sealing strip between the aluminium frame and the structure, and in addition shall be pointed all round on the external face with "Expandite Thioflex 600" or other approved twopart polysulphide liquid polymer sealing compound, applied at the junction of the frame with the structure. Pointing, etc. of doors and windows shall be executed by the manufacturer, or his approved specialist waterproofing sub-contractor

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Protection

The protection of aluminium doors and windows during and after fixing shall be the responsibility of the Contractor, they must be kept free from mortar droppings, etc. any units damaged are to be replaced. Aluminium doors and windows shall be protected with suitable adhesive protection tape applied to all exposed surfaces by the Manufacturer at the factory prior to delivery to site. Protection tape is to be of a different colour from the anodising

Servicing etc.

When necessary, all protection tape shall be removed by the Manufacturer, who shall then clean the doors and windows, but excluding the glass, which will have been glazed clean, test and service them, make all necessary adjustments and/or repairs and leave them in perfect order. Protection of the doors and windows after servicing by the Manufacturer and cleaning of glass after glazing shall be the responsibility of the Contractor

Prices

Prices for aluminium shall include the manufacture, delivery to site, unloading, setting up and fixing in position, supply of glass and glazing complete, "Sondor" sealing strips, wrought softwood infill linings to all hollow section aluminium frames according to details and sealant pointing, fixing lugs, brackets, screws, beads, timber grounds, cleaning and servicing of windows, all by the Manufacturer

References

The type numbers used in the following descriptions are those referred to the relevant type numbers on the drawings issued for tender and construction purposes. The sizes given in the following descriptions are nominal and prices are to take cognisance thereof

Ironmongery

Prices for windows, doors and frames should allow for all the ironmongery specified on the drawings referred to

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Purpose made (Colour codes to be confirmed)
powder coated aluminium windows, complete with
and including ironmongery and 6.38mm intruder
proof clear safety glazing as per the specifications
and window schedules at the back of the bill of
quantities. Including 10 x 10mm Powder Coated
Epoxy colour solid square tubing bar fixed to
window frame. All as per SABS regulations and
fixed into openings between suspended ceilings,
concrete beams, steel beams, brick walls, etc.(see
attached drawings)

3	Window 900 x 900mm high (W1)	No	7
4	Window 1200 x 1200mm high (W3)	No	1
5	Window 1500 x 1200mm high (W2)	No	2

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	<u>BILL NO. 10</u>			
	<u>PLASTERING</u>			
	NOTE: Tenderers are advised to study the Preambles for Trades before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Items, materials or methods</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect			
	<u>SCREEDS</u>			
	<u>(3:1) Cement plaster screeds wood floated on concrete</u>			
1	25 mm Thick on floors and landings	m ²	35	
	<u>INTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
	On walls	m ²	192	
2	On narrow widths	m ²	15	
	<u>EXTERNAL PLASTER</u>			
	<u>Cement plaster on brickwork</u>			
3	On walls	m ²	65	
4	On narrow widths	m ²	8	
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PLUMBING AND DRAINAGE

SUPPLEMENTARY PREAMBLES

Items, materials or methods

Copper pipes

Reducing fittings

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Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

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

Excavations

No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling

"Soft rock" and "hard rock" shall be as defined in "Earthworks"

Laying, backfilling, bedding, etc of pipes

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions

Where no manufacturers' 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
SABS 1200 LD : Sewers
SABS 1200 LE : Stormwater drainage

Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches)

Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes)

Unless otherwise described bedding of rigid pipes shall be class B bedding

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Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

Stainless steel basins, sinks, wash troughs, urinals, etc

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

PLUMBING

RAINWATER DISPOSAL

"Watertite" pre-painted seamless aluminium Ogee gutter, or equal and approved, 85 x 125 x 0,6mm, coated internally and externally with "ColourTech G4" (Colour: Marble White) including cut and mitered angles and stop ends sealed with "Down Corning 813" silicone, or equal and approved, in single lengths (no end laps) laid to even falls, including standard internal 2,5 x 20mm aluminium hanger brackets fixed to Nutec fascia board (fascia measured elsewhere) not exceeding 600mm centres with approved aluminium serrated nails or aluminium peeled rivets.

1	125 x 85mm Ogee eaves gutters	m	21
2	Extra over eaves gutter for stopped end	No	2
3	Extra over eaves gutter for outlet for 75 x 75mm pipe.	No	2
4	110mm Diameter Marley Streamline Rainwater pipes	m	7
5	Extra over rainwater pipe for bend	No	2
6	Extra over rainwater pipe for shoe	No	2

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SANITARY FITTINGS

Wash hand basins

7	Vaal Sanitaryware vitreous china 510 x405mm rounded "Hibiscus" basin with three semi-punched tapholes, integrated overflow, and chainstay hole through the centre semi-punched taphole, including plug	No	5
8	DB22a Cobra or other approved bottle trap, 75mm deep re-seal and adjustable telescopic pipe, 1 1/4" female inlet x 1 1/4" male outlet complete	No	5
9	COBRA WATERTECH Basin pillar tap no: 111 with Star chromium plated handle, colour markings (hot/left & cold/right). Recommended working pressure is 400kpa (4 bar)	No	5
10	15mm Copper bent service pipe, 450mm girth, including two connectors	No	5

Water Closets

11	Vaal Sanitaryware vitreous china "Afsan" low level 90° outlet washdown pan. Vaal Sanitaryware vitreous china "Hibiscus Elite Vandal Proof" low level cistern (code 7116LV), complete with front push button, lid, fittings and low level flush pipe.	No	7
12	15mm Copper bent service pipe, 450mm girth, including two connectors	No	7

TAPS, VALVES, ETC.

Brass

13	15mm Stopcock	No	14
14	22mm Stopcock	No	2

SANITARY PLUMBING

PIPES, ETC.

uPVC pipes

15	50mm Pipes	m	42
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16	110mm Pipes	m	21		
	<u>Extra over uPVC pipes for fittings</u>				
17	50mm Bend	No	21		
18	110mm Bend	No	21		
19	50mm Junction	No	7		
20	110mm Junction	No	7		
21	110mm Pan connector	No	7		
22	50mm Access bend	No	21		
23	110mm Access bend	No	7		
24	50mm Access junction	No	14		
25	110mm Access junction	No	7		
26	110mm "GI Two-way" vent valve	No	7		
	<u>WATER SUPPLIES</u>				
	<u>Copper pipes (class 460/2) with soldered joints</u>				
27	15mm Pipes	m	70		
28	22mm Pipes	m	15		
	<u>Extra over copper pipes (class 460/2) for capillary fittings</u>				
29	15mm Fittings	No	63		
30	22mm Fittings	No	10		
	<u>Extra over copper pipes for capillary soldered fittings</u>				
31	15 mm Fittings	No	56		
32	22 mm Fittings	No	12		
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LAGGING

25mm Thick fibre glass insulation wrapped around pipes and fittings including straps, etc.

33	15mm Pipes	m	21
34	22mm Pipes	m	10

Taps, valves, etc.

35	15 mm Brass bibcock with hose connection and 1/2" threaded outlet	No	1
36	25mm Brass stop valve	No	1

TESTING, ETC.

37	Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect	Item	
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<u>GLAZING</u>			
NOTE: Tenderers are advised to study the Preambles for Trades before pricing this bill			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Items, materials or methods</u>			
Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect			
<u>GLAZING TO STEEL WITH PUTTY</u>			
<u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u>			
<u>6mm Silvered float glass copper backed mirrors with 10 mm bevelled and polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u>			
1	Mirror 420 x 600mm high with 4 round nose chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete.	No	5
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Glazing			
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	<u>BILL NO. 14</u>			
	<u>PAINTWORK</u>			
	NOTE: Tenderers are advised to study the Preambles for Trades before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Items, materials or methods</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. The use of trade names for items, materials or methods shall also mean - or other approved - on the condition that prior approval is obtained from the architect			
	<u>PAINTWORK, ETC TO NEW WORK</u>			
	<u>ON STEEL FLOATED PLASTER</u>			
	<u>Prepare surfaces and remove all loose material,</u> <u>apply one primer coat 'Plascon Professional Gypsum & Plaster Primer (PP700)' and two top coats</u> <u>'Plascon Professional Superior Low Sheen (PEM1000/TLS)' paint</u>			
1	On internal walls	m ²	192	
	<u>ON CEILINGS</u>			
	<u>Prepare surfaces and remove all loose material,</u> <u>apply one primer coat 'Plascon Professional Gypsum & Plaster Primer (PP700)' and two top coats</u> <u>'Plascon Professional Super Matt (PEM 900/TSA)' paint</u>			
2	On internal ceilings and cornice	m ²	34	
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ON FIBRE-CEMENT

Prepare surfaces and remove all loose material, apply one primer coat 'Plascon Professional Gypsum & Plaster Primer (PP700)' and two top coats 'Plascon Kitchen & Bathrooms (KBM/TKM)' paint

3	On external ceilings and cornice	m ²	1
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Prepare surfaces and remove all loose material, apply one primer coat 'Plascon Professional Gypsum & Plaster Primer (PP700)' and two top coats 'Plascon Professional Super Matt (PEM 900)' paint

4	On Barge and fascia boards fixed to wooden trusses	m	43
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ON WOOD

Prepare surfaces, apply one sealer coat 'Plascon Woodcare Ultra Varnish (X33-38 range/X44)' and two top coats 'Plascon Woodcare Ultra Varnish (X33-38 range/X44)' paint, including Two coats aluminium wood primer on backs of frames, linings, etc. not exceeding 300mm wide

5	On doors	m ²	35
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6	On door frames	m ²	25
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	<u>BILL NO. 1</u>			
	<u>SITE WORKS AND PAVING (PROVISIONAL)</u>			
	<u>GENERAL EARTH WORKS (PROVISIONAL)</u>			
	<u>SITE CLEARANCE, REMOVAL OF TREES, ETC.</u>			
	<u>Site Clearance :</u>			
1	Clear area of site of all rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200 mm girth, bush, etc., including reclearing of any subsequent vegetation growth during the contract period as considered necessary by the Representative and removing all material from site	m ²	137	
	<u>ROADS, PAVINGS, ETC.,</u>			
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Excavation over site</u>			
2	Reduce levels not exceeding 2 m deep under parking and paving areas, etc.	m ³	32	
	<u>Extra over all excavations for carting away</u>			
3	Surplus material from excavations and/or stock piles on site to be levelled on site as per instruction from the Representative.	m ³	32	
	<u>Earth filling supplied by the contractor</u>			
4	Over site of G5 material subgrade layer in accordance with SABS 1200 DM compacted to 95% modified AASHTO density	m ³	16	
5	Over site of G6 material subgrade layer in accordance with SABS 1200 DM compacted to 95% modified AASHTO density	m ³	16	
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	<u>Coarse river sand filling supplied by the Contractor</u>				
6	Under paving	m ³	3		
	<u>WEED KILLER</u>				
	<u>Approved weed killer in strict accordance with manufacturers instructions</u>				
7	Under paving, etc	m ²	54		
	<u>CONCRETE</u>				
	<u>PAVING</u>				
	Paving is to be laid in accordance with SABS 1200 MJ, SABS 1058 and the Concrete Masonry Association's specifications				
	<u>Paving of 60 mm concrete paving bricks of approved colour with butt joints on 20 mm thick river sand bed (elsewhere measured)</u>				
8	Paving in stretcher bond to falls	m ²	54		
9	E.O. for straight edge blocks including concrete beam	m	30		
	<u>COVERED PARKING</u>				
	<u>EXCAVATION, FILLING, ETC</u>				
	<u>Excavation in earth not exceeding 2m deep</u>				
10	Bases	m ³	9		
	<u>Extra over all excavations for carting away</u>				
11	Surplus material from excavations to stock piles on site	m ³	5		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Modified AASHTO density</u>				
12	Backfilling to trenches, holes, etc.	m ³	5		
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	<u>Risk of collapse of excavations</u>				
13	Sides of trench and hole excavations not exceeding 1,5m deep	m ²	30		
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
	<u>25MPa/19mm concrete</u>				
14	Bases	m ³	5		
	<u>STEEL COLUMNS AND BEAMS</u>				
	<u>Welded columns in single lengths with flat base, cap, bearer and connection plates, bolted to concrete</u>				
15	IPE180 x 91 x 18.80kg/m IPE I-Section Column	t	0.38		
16	IPE180 x 91 x 18.80kg/m IPE I-Section Truss at 3deg angle	t	0.60		
17	125 x 65 x 20mm x 2.5mm x 5.36kg/m Lip Angle beams	t	0.14		
18	60 x 60 x 4 mm x 3.7kg/m L bracing at 35deg angle	t	0.08		
19	60 x 60 x 4 mm x 3.7kg/m L Cross bracing	t	0.07		
20	IPE180 x 91 x 18.80kg/m IPE I-Section haunch x 944mm long including cutting, 12mm end plate, stiffeners to both sides, welded connection and bolted to truss, including eight (no.8) holes to receive 8 M20 bolts	No	6		
21	IPE180 x 91 x 18.80kg/m IPE I-Section haunch x 660mm long including cutting, 12mm end plate, stiffeners to both sides, welded connection and bolted to truss, including eight (no.8) holes to receive 8 M20 bolts	No	6		
22	60 x 60 x 5mm thick x 4.57 kg/m x 140mm long connection welded and bolted to truss, including two (no.2) hole to receive 2 M12 bolts	No	40		
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23	125 x 75 x 8mm thick x 5.36kg/m 140mm long connection welded and bolted to truss, including eight (no.8) hole to receive 8 M12 bolts	No	30		
24	230 x 230 x 12mm thick connection plate welded and bolted to column, including two (no.2) hole to receive 2 M16 bolts	No	16		
25	380 x 170 x 12mm thick connection plate welded and bolted to bracing, including four (no.4) hole to receive 4 M16 bolts	No	4		
26	Extra over IPE180 trusses for cutting 6deg angles as per carport detail	No	12		
<u>STEEL PURLINS, GIRTS, BRACING, ETC</u>					
<u>Purlins and girts, bolted to steel</u>					
27	125 x 65 x 20 x 2.5mm x 5.36kg/m Thick cold-formed lipped channel purlins	t	0.37		
<u>Welded bracing, etc with connection plates, welded to steel</u>					
28	230 x 320 x 12mm Base plate bolted to concrete base, including four (No. 4) holes to receive M16 U shaped anchor bolt	No	6		
29	360 x 180 x 12mm End plate bolted to truss, including eight (No. 8) holes to receive M20 grade 8.8 bolts	No	9		
<u>BOLTS, FASTENERS, ETC</u>					
30	M12 bolts (Class 4.8)	No	240		
31	M16 bolts (Class 8.8)	No	48		
32	M20 bolts (Class 8.8)	No	72		
33	M16 U-shped anchor bolts	No	24		
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PROFILED METAL SHEETING AND ACCESSORIES

**Global Roofing Solutions or equal and approved
0,6mm thick 700mm cover Klip-Tite™ profile Z275
spelter ISQ550 galvanised steel roof sheeting, steel
purlins using KL700 clips fixed with 10 No.16 x
16mm long self drilling wafer head PH2 screws, No.
3 drill point fasteners, all in accordance with the
manufacturer's specifications. (Colour: as specified
by park manager)**

34	Roof covering with pitch not exceeding 25 degrees	m ²	72
35	Ridge capping	m	7

PAINT ON METAL

**Prepare, touch up factory primer, paint one coat
universal undercoat and two coats non drip matt
polyurethane enamel paint**

36	On general surfaces	m ²	215
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RUBIQUANT QUANTITY SURVEYORS

R

[illegible]

Sundries

6 Keeping excavations free of water

Item

7 Imported sand in bedding and surround to pipework well compacted in layers, including any additional excavation, risk of collapse, etc

m³

9

TESTING :

8 Allow for testing the whole of the water reticulation system and for any re-testing necessary after taking out and replacing any defective work to the satisfaction of the Representative.

Item

Carried to Collection

R

Section No. 3
Bill No. 2
Water Supply (Provisional)
RUBIQUANT QUANTITY SURVEYORS

Section No. 3
Bill No. 2
Water Supply (Provisional)

COLLECTION

Total Brought Forward from Page No

Page No	Amount
71	
72	

CARRIED FORWARD TO SUMMARY OF SECTION No:
3

Section No. 3
Bill No. 2
Water Supply (Provisional)
RUBIQUANT QUANTITY SURVEYORS

R

Item No		Quantity	Rate	Amount
	<u>SECTION NUMBER 3</u>			
	<u>BILL NUMBER 3</u>			
	<u>SOIL DRAINAGE (PROVISIONAL)</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or other approved may be used with prior approval from the architect			
	<u>EXISTING MANHOLE</u>			
1	Break into existing manhole, build in pipe as necessary, bench out in connection to the existing soil drainage system with and including all excavations, material and labour to the approval of the Representative.	No	1.00	
	<u>REPAIR OF SEWER INFRASTRUCTURE</u>			
	<u>Sewer pipe repairs, all pipe and fittings to be checked with Engineer before installing</u>			
	<u>Free Flow uPVC drain pipes including bedding, backfilling and compackting of pipe trenches</u>			
2	110mm Pipe and excavations not exceeding 1m deep	m	20	
	<u>Extra over Free Flow uPVC pipe for fittings</u>			
3	110mm Bend	No	3	
4	110mm Access bend	No	5	
5	110mm Access junction	No	10	
6	110mm Inspection eye	No	10	
	Carried to Collection		R	
	Section No. 3 Bill No. 3 Soil Drainage (Provisional) RUBIQUANT QUANTITY SURVEYORS			

	<u>Sundries</u>				
7	ABC cast iron straight or bent cleaning eye with removable cover jointed to 110mm uPVC pipe and set in and including 15MPa/19mm mass concrete surround with exposed surfaces trowelled smooth	No	4		
	<u>110mm Rodding eye</u>				
8	110mm Rodding eye complete (Cast Iron cover casted in concrete block - Cover size 225x225)	No	3		
	<u>Gulleys</u>				
9	110mm Gulley not exceeding 1m deep to invert, comprising 100mm diameter vitrified clay gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating for, bedding on and encasing in 20MPa/19mm mass concrete and fitted with and including precast gulley top bedded in cement mortar	No	3		
	<u>Sundries</u>				
10	Imported sand in bedding and surround to pipework well compacted in layers, including any additional excavation, risk of collapse, etc	m ³	1		
11	Keeping excavations free of water		Item		
	<u>TESTING :</u>				
12	Allow for testing the whole of the soil drainage system and for any re-testing necessary after taking out and replacing any defective work to the satisfaction of the Representative.		Item		
Carried to Collection					R
Section No. 3					
Bill No. 3					
Soil Drainage (Provisional)					
RUBIQUANT QUANTITY SURVEYORS					

Section No. 3
Bill No. 3
Soil Drainage (Provisional)

COLLECTION

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75	

CARRIED FORWARD TO SUMMARY OF SECTION No:
3

Section No. 3
Bill No. 3
Soil Drainage (Provisional)
RUBIQUANT QUANTITY SURVEYORS

R

SECTION SUMMARY - EXTERNAL WORKS

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[illegible]

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	PRELIMINARIES	20	
2	NEW BUILDINGS	64	
3	EXTERNAL WORKS	77	
4	ELECTRICAL INSTALLATIONS	78	
SUB-TOTAL :		R	
<u>ADD</u> : VALUE ADDED TAX (15%)		R	
CARRIED TO FORM OF TENDER		R	
RUBIQUANT QUANTITY SURVEYORS			

