

	Request for Quotation	Doc. No	FIN-SCM-RFQ-0003
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RFQ Number	SAF-RFQ-0080
Request for Quotation Date	2024-01-23
RFQ Closing Date	2024-02-10
RFQ Closing Time	10.00 am
Compulsory Site Briefing	N/A
Contact Person	Ntendeleni.Lukoto@necsa.co.za
Quotation Validity	90 Days from the closing date
Submission Details	RFQ Response must be sent to: Catherine.Matima@necsa.co.za
RFQ Description	SUPPLY OF COOLING TOWER STRUCTURAL INTEGRITY ASSESSMENT (See RR-SPE-0054 (TCE No: 211734) Specification attached)

Dear Service Provider

Kindly provide a quotation for goods and or services as outlined in section 2 of this document.

1. Introduction

The South African Nuclear Energy Corporation Limited (Necsa) is a state-owned public company (SOC), registered in terms of the Companies Act, (Act No. 61 of 1973), registration number 2000/003735/06.

The Necsa Group engages in commercial business mainly through its wholly-owned commercial subsidiaries: NTP Radioisotopes SOC Ltd (NTP), which is responsible for a range of radiation-based products and services for healthcare, life sciences and industry, and Pelchem SOC Ltd (Pelchem), which supplies fluorine and fluorine-based products. Both subsidiaries, together with their subsidiaries, supply local and global markets, earning valuable foreign exchange for South Africa and are among the best in their field in their respective world markets.

Necsa's safety, health, environment and quality policies provides for top management commitment to compliance with regulatory requirements of ISO 14001, OHSAS 18001 and RD 0034 (Quality and Safety Management Requirements for Nuclear Installations), ISO 9001 and ISO 17025.

Necsa promotes the science, technology and engineering expertise of South Africa and improves the public understanding of these through regular communications at various forums and outreach programmes to the community. We are a proudly South African company continuously striving, and succeeding in many respects, to be at the edge of science, technology and engineering related to the safe use of nuclear knowledge to improve our world.

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For more information on Necsa, please visit: www.necsa.co.za

2. Scope of Work

Item Description	Quantity
SUPPLY OF COOLING TOWER STRUCTURAL INTEGRITY ASSESSMENT (See RR-SPE-0054 (TCE No: 211734) Specification attached)	01

3. Pricing

- All price quoted to include all applicable taxes.
- Price must be fixed and firm
- Price should include additional cost elements such as freight, insurance until acceptance, duty where applicable, disbursements etc.
- Quotation must be completed in full, incomplete quote could result in a quote being disqualified.
- Payment will be according to Necsa's General Conditions of Purchase.

4. Evaluation

4.1. Phase 1- Functionality Evaluation / Technical Evaluation

Where functional or technical evaluation criterion is applicable, assessment will be performed in terms of the criterion listed below and the criterion may include Technical, Performance, Quality and Risk.

If the Bidder's response to the Technical templates does not indicate that the Bidder can support an acceptable technical solution, the Bidder's response will be rejected and not evaluated further.

Together the Technical, Performance & Quality and Risk criteria make up the functionality criterion and a Bidder's Proposal will be evaluated for functionality out of a possible 100 points. Only RFQ responses achieving an evaluation score of greater than the set threshold points out of the possible 100 points and which score a number of points for functionality that is greater than or equal to the set threshold points of the number of points achieved by the highest scoring Bid for functionality will be selected to progress to the second stage.

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4.2. **Phase 2 - Evaluation In Terms Of Preferential Procurement Policy Framework Act, 2022**

This bid will be evaluated and adjudicated according to the 80/20 point system, in terms of which a maximum of 80 points will be awarded for price and 20 points will be allocated based on the specific goals (B-BBEE status level).

	POINTS
PRICE	80
SPECIFIC GOALS (B-BBEE status level)	20
Total points for Price and SPECIFIC GOALS	100

Preference goal

B-BBEE status level contributor

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

5. **Required Documentation**

- Tax Clearance Certificate (Tax pin issued by SARS)
- Declaration of interest (SBD 4)
- BEE Certificate / Applicable Affidavit if classified as EME
- Letter of Good Standing (COID) only if Applicable due to the nature of work required

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- Any other document or certification that might have been requested on this RFQ

6. Important

- 6.1. Quotation must be submitted on or before the RFQ closing date and time stated above.
- 6.2. Orders above R 30 000 will be evaluated according to the PPPFA 80/20-point system and a functionality scorecard where applicable and the ones above R 1 Million will be subjected to the tender process.
- 6.3. This RFQ is subjected to the Necsa's General Conditions of Purchase, Preferential Procurement Policy Framework Act 2000 and the Preferential Procurement Regulations, 2022, the General Conditions of Contract (GCC) and, if applicable, any other legislation or special conditions of contract
- 6.4. Failure on the part of a bidder to submit proof of B-BBEE Status level of contributor together with the bid, will be interpreted to mean that preference points for specific goals are not claimed.
- 6.5. The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to specific goals, in any manner required by the purchaser.
- 6.6. For a Bidder to obtain clarity on any matter arising from or referred to in this document, please refer queries, in writing, to the contact details provided above. Under no circumstances may any other employee within Necsa be approached for any information. Any such action might result in a disqualification of a response submitted in competition to this RFQ.
- 6.7. No goods and/or services should be delivered to Necsa without an official Necsa Purchase order.
- 6.8. Necsa reserves the right to; cancel or reject any quote and not to award the RFQ to the lowest Bidder or award parts of the RFQ to different Bidders, or not to award the RFQ at all.
- 6.9. The supplier shall under no circumstances offer, promise or make any gift, payment, loan, reward, inducement, benefit or other advantage, which may be construed as being made to solicit any favour, to any Necsa employee or its representatives. Such an act shall constitute a material breach of the Agreement and the Necsa shall be entitled to terminate the Agreement forthwith, without prejudice to any of its rights
- 6.10. By responding to this request, it shall be construed that: the bidder, hereby acknowledge to be fully conversant with the details and conditions set out in the Necsa's General Conditions of Purchase, Preferential Procurement Policy Framework Act 2000 and the Preferential Procurement Regulations, 2022, the General Conditions of Contract (GCC), Technical Information and Specifications attached, and hereby agree to supply, render services or perform works in accordance therewith

Document number	RR-SPE-0054 (TCE No: 211734)
Revision number	00
Date	JULY 2023
Title	USER REQUIREMENTS SPECIFICATION FOR THE SUPPLY OF COOLING TOWER STRUCTURAL INTEGRITY ASSESSMENT

AUTHORISATION

FUNCTION	NAME	SIGNED	DATE
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REVISIONS

This document has been revised in accordance with the following schedule:

Rev. No.	Date Approved	Nature of Revision	Prepared
0	See title page	First Issue	N.A. Lukoto

1. INTRODUCTION

The SAFARI-1 Cooling Towers are an integral part of the SAFARI-1 research reactor facility, providing essential cooling for its operations. This User Requirements Specification outlines the requirements for the supply of a concrete structural integrity assessment for the cooling towers of SAFARI-1.

2. PURPOSE

The purpose of this assessment is to evaluate the current condition and structural integrity of the concrete components of the SAFARI-1 Cooling Towers. The assessment will identify any potential issues or weaknesses in the concrete structures and provide recommendations for remedial actions if necessary.

This document provides the user requirements that shall be applied by the supplier for assessing the structural soundness of the reinforced concrete structures associated with the Cooling Tower.

3. SCOPE

The concrete structural integrity assessment should cover the following aspects:

a. Visual Inspection:

A thorough visual inspection of all concrete surfaces, including columns, beams, walls, and foundations. Identification and documentation of visible cracks, spalling, degradation, or any other signs of concrete distress.

b. Non-Destructive Testing (NDT):

Perform non-destructive testing techniques to assess the integrity of the concrete structures.

Utilize appropriate NDT methods, such as ultrasonic testing, ground-penetrating radar, or rebound hammer test.

Identify and document areas of potential concern, such as areas with low concrete strength, voids, or delamination.

c. Load Assessment:

Evaluate the existing design loads on the cooling tower structures and compare them against the actual loads experienced during operation.

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Assess the adequacy of the concrete structures to withstand the design and operational loads.

Identify any areas where additional strengthening or modifications may be required.

d. Corrosion Assessment:

Inspect the concrete for signs of corrosion, particularly in areas exposed to moisture or chemicals. Identify any areas where reinforcement corrosion may be occurring or has the potential to occur.

Provide recommendations for corrosion prevention and mitigation measures.

e. Report and Recommendations:

Prepare a detailed report summarizing the findings of the assessment, including the inspection results, NDT findings, load assessment, and corrosion assessment.

Provide clear and concise recommendations for any necessary repairs, retrofitting, or maintenance actions required to ensure the structural integrity of the cooling towers.

Include a prioritized list of recommendations based on the severity and urgency of each identified issue.

4. APPLICABLE DOCUMENTS/ REFERENCES

- i. If a date or revision is not listed under the reference section, the latest issue, at the time of Request for Quote (RFQ) shall apply.
- ii. The user's requirement specification covers the minimum requirements, and additional requirements from the supplier can be discussed and included if applicable. However, it is important to maintain a comparable specification for procurement purposes.

4.1 REFERENCED DOCUMENTS

Ref. No.	Doc. No.	CMS ID	Document Title	Revision
[1]	RR-SAR-0004		SAFARI-1 Research Reactor Safety Analysis Report- Chapter 4: Buildings and Structures	04
[2]	RG-0012		Interim Guidance on Construction Management for Nuclear Facilities	00

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4.2 REFERENCED DRAWINGS

Ref. No.	Drawing. No.	Drawing Title	Revision
[3]	13677-1-A	General Arrangement- SHEET 1	
[4]	13677-2-A	General Arrangement- SHEET 2	
[5]	13677-3-A	General Arrangement- SHEET 3	
[6]	13677-26B	General Arrangement – SHEET 2	Final Modifications

5. ABBREVIATIONS

The following abbreviations are referenced in this report:

NDT	Non Destructive Testing
NNR	National Nuclear Regulator
RFQ	Request for Quote
URS	User Requirement Specification

6. DEFINITIONS

The following definitions are referenced in this report:

Cooling Tower	A specialized structure used to remove excess heat from industrial processes
Schmidt Hamer Test	The non-destructive testing method is used to assess the strength and durability of concrete or rock surfaces.

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7. BACKGROUND

The cooling tower shells are of concrete, approximately 13.75 m high, 9.8 m wide, and 16.5 m long. Each of the three towers is divided into two cells with a common basin of 341 m³ capacity. The basins are provided with a water supply line for make-up, an overflow, and a blow down connection. A variable rate of blowdown is required to keep the chloride content and the dissolved solids in the secondary coolant within acceptable limits [1].

To meet the requirements set by the National Nuclear Regulator (NNR) [2], an evaluation of the condition of the concrete structure containing the active piping within the cooling tower must be conducted for SAFARI-1. The longitudinal section of the Cooling Towers is depicted in Figure 3 to Figure 4.

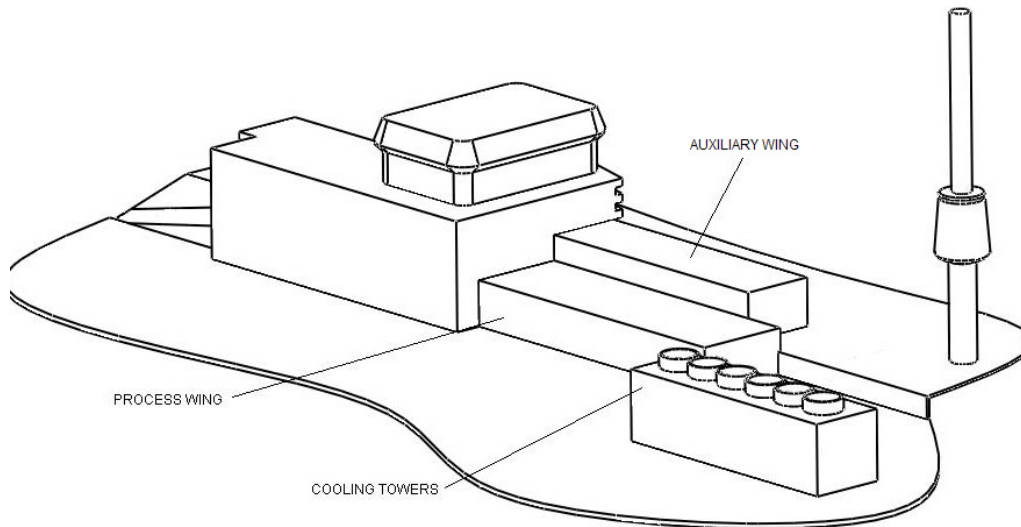


Figure 1 Simplified diagram of SAFARI-1 showing cooling towers [1]

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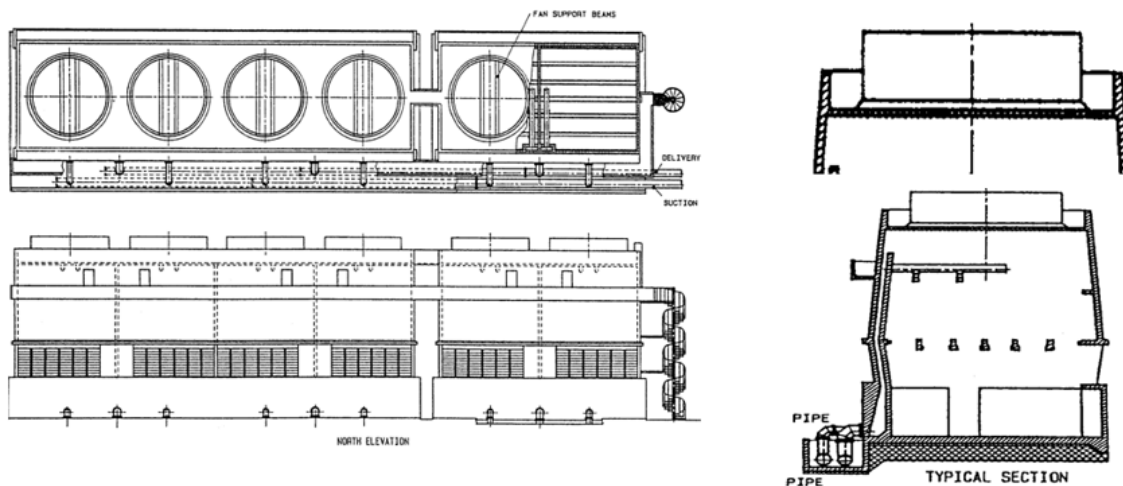


Figure 2 Cooling Towers with typical section

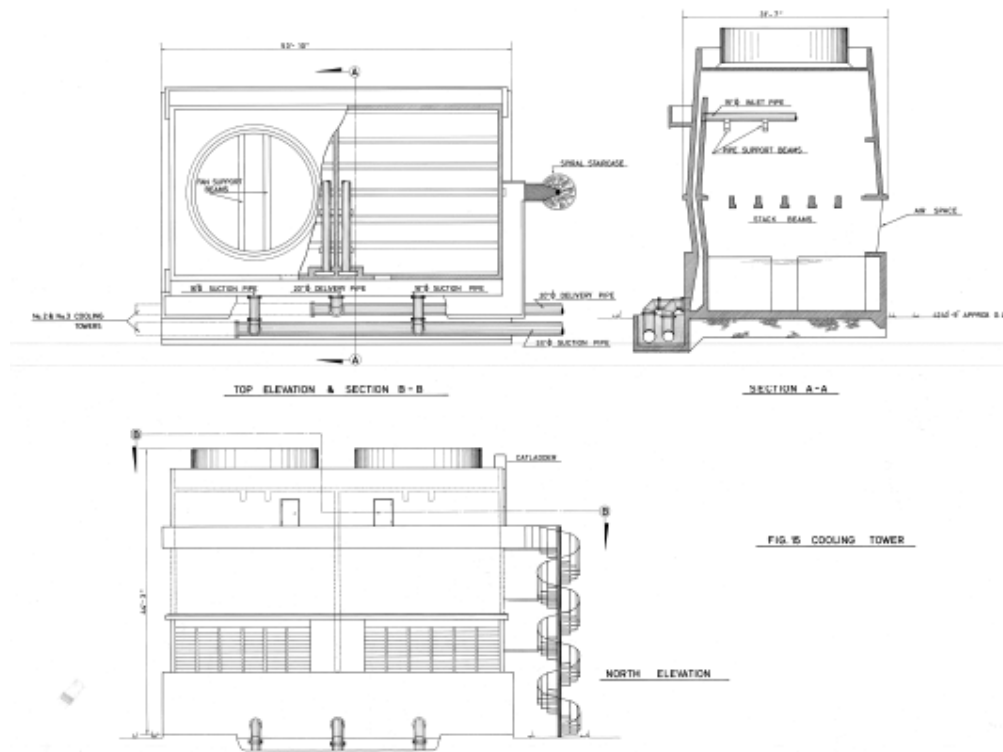


Figure 3 No 2 & No 3 Cooling Towers Elevation and their section [3]

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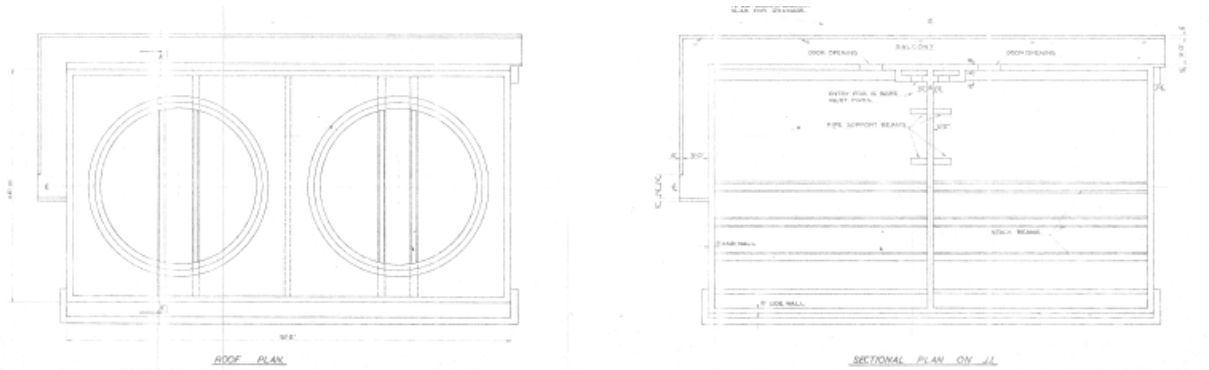


Figure 4 Cooling Tower Roof Plan and Its section

8. INVESTIGATION

The primary objective of the proposed investigation is to evaluate the structural integrity of the reinforced concrete members associated with the cooling towers. Please note that the assessment will not include any considerations related to seismic or geotechnical factors. Once a detailed Scope of Work has been agreed upon, the service provider is expected to provide SAFARI-1 with a technical appraisal. The following tests are anticipated to be conducted:

1. Schmidt Hammer Test
2. Cooling Tower drill sample crush test
3. Comprehensive visual inspection of the entire structure, documenting any physical defects
4. Destructive and non-destructive testing (e.g., identifying cracking, voids, delamination, honeycombing) on the in-place concrete
5. Testing of samples at an approved off-site laboratory
6. Physical measurement of the members and embedded reinforcement
7. Structural analysis performed by a qualified structural engineer
8. Preparation of a comprehensive technical report outlining the findings, along with potential recommendations
9. Subsequent meetings to discuss the findings and establish an ongoing inspection plan.

It is essential to emphasize that the tests and procedures listed above are subject to the agreed Scope of Work and may be adjusted or expanded upon based on the specific requirements of the project.

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9. DELIVERABLES

The following deliverables should be provided upon completion of the concrete structural integrity assessment:

1. Detailed assessment report:

A comprehensive report documenting the assessment process, findings, and recommendations for remedial actions.

2. Digital documentation:

All inspection reports, NDT data, photographs, and any other relevant documentation are in a digital format.

3. Presentation:

A presentation of the assessment findings and recommendations to the relevant stakeholders, if required.

4. Compliance and Standards:

The concrete structural integrity assessment should adhere to the following guidelines and standards:

- a. Applicable local and international building codes and standards.
- b. Relevant industry best practices and guidelines for concrete structure assessment and inspection.
- c. Any specific requirements or guidelines provided by the SAFARI-1 facility or regulatory authorities.

10. DRAWINGS AND DRAWINGS APPROVAL

The drawings of the SAFARI-1 Concrete Biological Shield are listed in references [3] to [6].

11. GENERAL REQUIREMENTS

The supplier is required to furnish a timeline and cost estimate for the project, along with expertise in conducting assessments on concrete structures. They must ensure the confidentiality of assessment documentation and comply with safety regulations. Quality assurance, change management, and post-assessment support are necessary. The assessment must fulfil specific criteria for it to be considered successful.

11.1 TIMEFRAME AND SCHEDULES

The supplier should provide a detailed project timeline, including key milestones and deliverable dates, in coordination with the SAFARI-1 facility management.

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11.2 BUDGET

The supplier should provide a clear and detailed cost estimate for the concrete structural integrity assessment, including any required equipment, personnel, and additional services.

11.3 QUALIFICATIONS AND EXPERIENCE

The supplier should possess the necessary expertise, qualifications, and experience in conducting concrete structure assessments and be familiar with the specific requirements of nuclear facility infrastructure.

11.4 DOCUMENTATION AND CONFIDENTIALITY

All assessment documentation, reports, and findings should be treated as confidential and proprietary information of the SAFARI-1 facility, and their unauthorized disclosure or use for any purpose other than the assessment and subsequent remedial actions is strictly prohibited.

11.5 HEALTH AND SAFETY

The supplier shall adhere to all applicable health and safety regulations and guidelines during the assessment process. They should provide evidence of compliance with relevant safety standards and protocols to ensure the safety of their personnel, as well as the integrity of the SAFARI-1 facility.

11.6 QUALITY ASSURANCE

To guarantee adherence to quality standards, the measurement and testing of any samples must exclusively employ calibrated instrumentation, test equipment, and accredited test methods. The supplier must establish a comprehensive quality assurance program to ensure the precision, dependability, and consistency of the assessment outcomes. They should furnish comprehensive information regarding their quality control procedures, along with any pertinent certifications or accreditations they possess.

11.7 CHANGE MANAGEMENT

Any proposed changes or deviations from the agreed-upon scope, schedule, or budget should be communicated promptly to the SAFARI-1 facility management for approval.

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11.8 MAINTENANCE AND SUPPORT

The supplier should be available for post-assessment consultations, inquiries, and support regarding the assessment findings and recommendations. They should also provide recommendations for ongoing monitoring and maintenance of the cooling tower structures.

11.9 ACCEPTANCE CRITERIA

The concrete structural integrity assessment will be deemed successful if it satisfies the following criteria:

- a. The assessment is conducted in accordance with the agreed-upon scope, standards, and guidelines.
- b. The assessment report is comprehensive, well-documented, and provides clear recommendations for remedial actions.
- c. The assessment findings and recommendations are presented to the relevant stakeholders clearly and understandably.

12. ACCEPTANCE AND SIGN-OFF

The SAFARI-1 facility management will review the assessment report, findings, and recommendations and provide written acceptance and sign-off upon satisfaction of the acceptance criteria.

By agreeing to these user requirements, the supplier acknowledges their commitment to fulfilling the specified scope of work and delivering a comprehensive assessment of the SAFARI-1 Cooling Towers' concrete structural integrity.

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APPENDIX A: COOLING TOWER PICTURES



Figure 5 View of the cooling tower damage



Figure 6 Piece of concrete that fell off the cooling tower

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.

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.

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;
- 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.
- 3.4 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.
- 3.5 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.
- 3.6 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.

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Signature Date

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.

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Position

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Name of bidder