

PROFESSIONAL STRUCTURAL ENGINEER TO CONDUCT A STRUCTURAL INTEGRITY AUDIT FOR ALL CONCRETE STRUCTURES IN THE FOSKOR ACID DIVISION

Tender no: FTP /23/MN

Cost Code:

Revision¹: 0.2 see legend at bottom of page

Revised date: 22/09/2023

NAME	TITLE	Empl. no	SIGNATURE	DATE
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COMPILED - RECOMMENDATION

N. Bodibe	Project Supervisor, Civil	505068		09/11/2023
W. Mhlongo	Project Engineer, Civil	503064		09/11/2023

COMPREHENSION AND ACCEPTANCE BY CLIENT

The Client warrants that he/she reviewed the Scope of Works and that this Tender and related document and that the Scope of Works comply to Production requirements and the outcome of the work as agreed between parties.

Comments:				

APPROVAL TO PROCEED

B Mbuyazi	Snr. Manager Projects	504427		09/11/2023
S Mbuyazi	GM, Acid Division	500441		13/11/2023

¹ Revision Legend:

0.n = Draft, 1= Final version
Thus first draft = 0.1, second draft = 0.2, etc, and final approved = 1.0
Should the final be revised for whatever reason the revision would be 1.1 etc.



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Definitions:

For the purpose of this document the following definitions/abbreviations will apply: -

Foskor - Shall only mean and refer to Foskor (Pty) Ltd.

Tenderer - Shall mean a business company, organization or person who undertakes to conduct such works as described in the Scope of Work section of this document and as submitted by means of return Tender.

Contractor - Shall mean a business company, organization or person who undertakes to conduct such works as described in the Scope of Work section of this document. Unless otherwise specified, the Tenderer and the Contractor will be deemed to be one and the same.

He/His/Himself - Shall also refer to the opposite gender as well or a company of individuals or combination of persons of different genders as applicable to the Tenderer.



Section A: INVITE AND TENDER INSTRUCTIONS

A.1 Invitation to Tender

A.1.1 Tenderers are invited to submit a tender in accordance with this Tender Document.

The Works consists of the **PROFESSIONAL STRUCTURAL ENGINEER TO CONDUCT A STRUCTURAL INTEGRITY AUDIT FOR ALL CONCRETE STRUCTURES IN THE FOSKOR RICHARDS BAY PLANT.**

The tender Instructions are to be found in **Section A.**

The Contract Works Forms of Tender is stipulated in **Section B.**

The detailed Scope of Work and Specifications are to be found in **Section C.**

The Conditions of Contract are stipulated by **Foskor (Pty) Ltd, Procurement Department.**

A.1.2 At the time of tendering, any queries and/or doubts within the scope, specifications or drawings shall be referred to:

Designation	Buyer: Tenders and Contracts
For the attention of	Mphumeleli Ngqulunga
Telephone	035 902 3115
Fax	
Cell no	
Email	PhumeN@foskor.co.za

A.2 Return of Tender Documents

A.2.1 One copy of this document, duly completed and signed by the Tenderer, shall be delivered in a plain sealed envelope, distinctly marked as follows:

TENDER		
Tender No.	FTP /23/MN	
Contract Title:	PROFESSIONAL STRUCTURAL ENGINEER TO CONDUCT A STRUCTURAL INTEGRITY AUDIT FOR ALL CONCRETE STRUCTURES IN THE FOSKOR RICHARDS BAY PLANT	The Manager Procurement FOSKOR LIMITED 21 John Ross Parkway Richards Bay
Closing date & time:		

A.2.2 Tenders shall be placed in the **Tender Box at Foskor Richards Bay Main Administration Reception** no later than **12h00 noon** on the closing date

A.2.3 A tender sent by fax shall not be accepted.



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- In case of Tenderers not being local, and not being in a position to hand deliver tender documents to the above-mentioned location, Tenderers may use an approved document courier for the purpose of delivering the tender document to Foskor (Pty) Ltd. This would be subject to auditable proof of dispatch from the Courier Company (including time and date of dispatch).
- Such proof shall be faxed and confirmed as addressed to Superintendent: Tenders and Contracts, FOSKOR (PTY) LTD, 21 John Ross Parkway, Richards Bay, facsimile number as indicated under item A.1.3 before the closing time and date of the tender.
- Foskor shall take no responsibility for lost courier documents – prior to opening of tenders - and onus rests on Tenderer to keep duplicate of Tender Submission.
- In this case the sealed envelope shall remain addressed as per paragraph A.2.1, and shall be placed in a sealed courier bag with the following street address delivery instructions:

**FOSKOR (PTY) LIMITED - (TENDER BOX)
21 John Ross Parkway
Richards Bay
3900**

- A.2.4 Tenders will not be opened in public and under no circumstances will the price(s) at which any Contract was awarded be divulged to any person.
- A.2.5 In the event that the Tenderer did not submit a tender or if his tender was unsuccessful, the Tenderer shall return the Enquiry Document and Drawings within **14 days** to the **Superintendent: Tenders and Contracts** .

A.3 Site Inspection

An official Site inspection shall be held at the **Foskor, Richards Bay** site in order for the Tenderer to fully acquaint himself with prevailing site and works conditions. In so doing you are to ensure that you fully understand the context and extent of the works (refer B.5 – Site Inspection Certificate).

Date of Site Visit	
Time of Site Visit	From : To :
Meeting Venue	Report at Main Security Entrance

Please wear the following protective clothing:

Overalls (Acid Proof),	YES
Hard Hat	YES
Safety Shoes	YES
Safety Glasses	YES
Hearing protection	YES
Gloves	N/A

IMPORTANT



- Please note that a Safety Induction is **MANDATORY** and all Tenderers to allow for at least **30 minutes** before the Site Meeting start, to complete the induction.
- The Site Visit / Inspection are **COMPULSORY**.

A.4 Examination and Completion of Documents

A.4.1 The Tenderer shall examine all documents forming part of the Tender and submit his tender accordingly. All drawings, addendums, annexures received with the Tender documents must be returned with your company stamp and/or signature, as a comprehensive part of your Tender Submission. Failure to do so may result in disqualification from tender.

Tender in accordance with this format and submit documents as specified below.

A.4.2 The Sections of this document shall not be separated in any way nor shall any pages be detached therefrom.

A.4.3 The Tenderers submission is to include all Financial and Contractual detail and be signed (by authorized person) and/or company-stamped together with tender submission.

A.4.3.1 Schedule of rates of Costs in detailed Breakdown or Labour Rates for the Works or Breakdown per Bill of Quantities

A.4.3.2 Initial Project Program of Works, Work Methodology, and Cash Flow (structured similarly to payment terms)

A.4.3.3 Schedule of Key Personnel on the Project

A.4.3.4 Schedule of Similar Contracts Undertaken

A.4.3.5 Site Inspection Certificate – signed by Tenderer as proof of attendance

A.5 Contract Documents Priority

The eventual Contract shall comprise the documents as stated in this tender document, your Tender submission by which you agree and the Foskor (Pty) Ltd Terms and Conditions, which shall be interpreted in accordance with the order of priority stated in the said Conditions.

A.6 Alterations by Tenderer

A.6.1 Should the Tenderer propose any departures or modifications from the Conditions of Contract, Specifications, or to qualify his tender in any way, he/she shall set out his/her proposals clearly in the covering letter attached to this Tender with reference to the particular section of the document, failing which the tender will be deemed to be unqualified. Any proposed technical departures from Foskor (Pty) Ltd.'s Requirements or Specifications shall only be considered if submitted in writing together with a detailed motivation for such departures.

A.6.2 The Tenderer shall include in respect of each proposed alteration the following:

- a) Reason for proposed exception;
- b) Suggested re-wording;
- c) Any effect on the tender price;



- c) Any effect on the execution of the scope of supply;
- d) Any effect on Foskor's overall program objectives.

If any of the above information is not supplied, the Tender may be regarded as non-compliant.

A.7 General

- A.7.1 Foskor (Pty) Ltd reserves the right to adjust arithmetical or obvious errors in the Tender. Such adjustments made by Foskor (Pty) Ltd will be communicated to the Tenderer prior to the acceptance of his Tender.
- A.7.2 The Tenderer (whether his Tender is accepted or not) shall treat the details of the Tender as private and confidential and no copies shall be made thereof without the permission of Foskor (Pty) Ltd.
- A.7.3 Foskor (Pty) Ltd is not bound to accept the lowest or any other Tender it may receive, nor to assign a reason for the rejection or acceptance of any Tender, and Foskor (Pty) Ltd has the right, after Tenders are opened, and before a Contract is awarded, to enter into negotiations and discussions with one or more Tenderers short-listed on a price, program or technical basis, with a view to the clarification, improvement or amendment of any particular Tender.
- A.7.4 All Tenderers tender at their own risk and Foskor (Pty) Ltd is not bound to accept any Tender and under no circumstances whatsoever will be responsible for any costs incurred by any Tenderer in compiling or submitting the tender.
- A.7.5 Furthermore, Foskor reserves the right to accept only a part of the Tender, with due communication and agreement of the Tenderer.
- A.7.6 The Tenderer is required to submit a 'bona fide' Tender, intended to be competitive and not to fix or adjust the amount of the Tender by or under or in accordance with any agreement or arrangement with any third party. The Tenderer is also obliged to ensure that it has not and will not at any time before the hour and date for the lodging of this Tender do any of the following acts:
- a) Communicate to any person the amount or approximate amount of the proposed Tender except where the disclosure, in confidence, of the amount of this Tender was necessary for the preparation of the Tender.
 - b) Enter into any agreement or arrangement with any third party that shall disqualify from or that Foskor shall refrain from using.



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Section B: FORMS OF TENDER TO BE SUBMITTED

B.1 Schedule of Rates or Summary of Bill of Quantities

	From Bill of Quantities – if applicable or →	qty	x rate =	ZAR	
1.0	SUB TOTALS:				
1.00	P & G's				A1
1.01	Inspection				A2
1.02	Testing				A2
1.03	Reporting				A2
	Sub Totals Sum (Excluding VAT)			<input type="text"/>	A3
2.0	Add: VAT	15%			D
3.0	Total Tender Sum (Including VAT)			<input type="text"/>	A4

- B1.1 In the event of their being any obvious errors of pricing, extensions or additions in the priced Schedule of Quantities attached, we agree to their being corrected, and the contract amount altered accordingly.
- B1.2 We further undertake that this tender cannot be withdrawn or retracted for **90** (ninety) days from the closing date.
- B1.3 Notwithstanding that, this tender is submitted by invitation, it is clearly understood and agreed that there is no obligation upon Foskor to accept the lowest or any tender.
- B1.4 The tendered prices are fixed and firm for the duration of the contract.
- B1.5 Unless or until a formal agreement is prepared and signed, this tender, shall serve as your written acceptance and constitute a binding contract between Foskor and Yourself.

Amount In Words:

Signed aton.....

Signature
For and on behalf of the Tenderer (duly authorized)

.....
Company Stamp



B.2 Initial Project Program of Works, Work Methodology and Cash Flow

(This is a workable schedule and the Service provider is in no way obligated to these dates. An obligatory final programme will only be required once the tender is awarded)

Commencement Date (Guide: 6 weeks from tender close date)

Assessment and Inspection

Completion of Works/ Final Handover (Guide: Project duration)

The Tenderer will be required to work

(select one of these options)

Defects Liability Period Applicable (Start from Project handover)

Retention Period:

Within 7 days from receipt of Purchase order.	
12 weeks after starting date.	
16 weeks after starting date.	
06h00 to 18h00, 7 days a week	
08h00 to 16h00, 5 days a week and every second weekend	X
24 hours, 7days a week (shift system)	
N/A	
N/A	

TO BE SUBMITTED WITH THIS TENDER

The Tenderer shall submit with this Tender:

- 1 Initial program (Bar Chart/Gantt Chart).
- 2 Record of previous similar contracts undertaken.
- 3 List of valid references.
- 4 Experience of Project Team Key members.
- 5 Proof of Professional registration with the professional Engineering Council of South Africa.
- 6 Signed site inspection certificate.
- 7 Proof of Valid Professional Indemnity



OTHER IMPORTANT NOTES

- ~~'Defects Liability Period' shall be that period in force for Foskor to call upon the Contractor/Consultant to rectify at no cost to Foskor (Pty) Ltd any defects of workmanship, quality or practice; and shall remain in force in parallel with the Warranty Period and any other duration agreed to.~~
- The Tenderer is to list and motivate any deviations in terms of Project Program and/or time allowed and this is subject to approval by the Foskor (Pty) Ltd Engineer.
- It would be expected, in the event of critical work and/or work behind programme/schedule, should such be attributable to the service provider, to make up the time and work and complete the work at no cost to Foskor (Pty) Ltd.
- The Tenderer shall, within **7 (seven)** days of contract, award submit a final detailed work methodology and program, and the final work methodology shall be verified and approved by Foskor (Pty) Ltd.
- The Tenderer is welcome to propose alternatives work methodology or approach to work, that may be of mutual benefit. This would be submitted in the form of an Alternative (clearly marked), however the Tenderer is **still to submit a tender in the form specified** in this tender.
- The Tenderer shall submit a Work Breakdown Structure (WBS) and compile a programme (use MS Projects or MS Excel to compile the Project Program).
- If the Tenderer is partially or wholly responsible for the design or design drawings according to which construction is specified, any corrections to design/design drawings shall remain for the Tenderers account for a period of 6 months (or as otherwise agreed) after project completion. This is to ensure that poor design or inaccuracy of designs is rectified at no cost to Foskor.

B.2.1 Project Completion and Handover; Warranty

Unless otherwise agreed, Project Completion (handover), shall be deemed to be from date of Foskor issuing a Project Complete/Handover Certificate to the service provider. This should be expected to be received within seven (7) days from date of receipt by Foskor of the complete Data Pack in its acceptably certifiable form (refer Section C of this document, **Quality Control**). Once the project has reached completion as defined by this scope, onus rests on the Tenderer to request from Foskor a Project Complete/Handover Certificate, which receipt shall define and signify the commencement of Retention Period (if applicable).

B.2.2 Initial Program to be Submitted

The interim and final project completion dates, as indicated in the above table should be used as a guideline for the Tenderer to compile the detail project schedule.

After the contract agreement is accepted (by signature of an agreement or acceptance of a Purchase Order) the dates shall be fixed and shall be applicable to the penalty clause as per agreement.

ATTACH GANT CHART AND/OR BAR CHART TO THIS PAGE



B.2.3 Table with Milestones to be Submitted

Using the critical path items from the program compile related Milestone Dates. Thus, the items/actions/ activities to be met that is critical towards the completion of the project

B.3 Schedule of Key Personnel on the Project

The Tenderer shall:

1. Complete schedule B.6.1 below concerning the Key Personnel on the project, indicating also if the person is employed by the Tenderer, a sub-contractor or temporary employed person.
2. Submit a project organogram showing the relationships and authority.

Key Personnel	Name and Surname	Full/Part Time on site, off-site?	Employed, Sub-Contractor or Temp?	Years Related Experience
Professional Engineer/Technologist appointed				
Engineer's Assistant				
Detailer / Draughtsman				
Document Control and Accounts				

These persons shall not be substituted without prior consultation with and approval from Foskor (Pty) Ltd.

Failure to submit this information at the time of tender could lead to disqualification of the tender.



B.5 Schedule of Labour Rates for the Works – NOT APPLICALE

The rates for labour indicated below shall be the Total Cost to the Company (Contractor). It shall include for all the Contractor’s profits, overheads, wages, accommodation, travelling, subsistence and other costs relative to the employment by the Contractor of the personnel detailed, and for hand and portable electric or pneumatic tools and consumables normal to the trade of the respective personnel.

However, it will exclude indirect supervision as same are deemed to be included under the costs relating to the Conditions of Contract i.e. non-productive supervisors are deemed to be included in the rate.

The rates detailed herein shall **not** be subject to escalation.

The Contractor’s rates per hour are based on a normal **9 hours per day**.

The application and use of these rates shall be at the sole discretion and subject to the prior approval of the Foskor designate representative.

Item No.	Category	Rate per Hour in Rands		
		Normal	Overtime	Sundays and PPH



B.7 Site Inspection Certificate – To be signed by Tenderer

This is to **CERTIFY**, that we
(Name(s) in CAPITAL LETTERS) (Referred to on the Form as "We")

representing and being duly authorized by:

.....
(Name of Company and Address) (Referred to on the Form as "We")

1. Visited the SITE on (date);
2. Received the TENDER Documents (including all attachments and subsequent correspondence related to this tender);
3. Carefully examined the SITE and made ourselves familiar with all local conditions likely to influence the WORKS and the cost thereof;

We further CERTIFY that we are satisfied with the description of the WORKS and explanations given by Foskor (Pty) Ltd and that we fully understand the nature of this TENDER.

I/We are,

Yours faithfully

SIGNATURE: _____

ON BEHALF OF: _____

DATE: _____

AS WITNESS: _____



Section C: SCOPE OF WORKS

C.1. Background, Present Situation and Proposed Solution

C.1.1 Background

The concrete structures at the Foskor Acid Division require assessment to determine their structural integrity. A professional structural engineer is required to assess all the concrete structures in the plant. The outcome of the findings from the assessment will assist the Department to keep the infrastructure in an acceptable serviceability condition for the activities at Foskor.

C.1.2 Present Situation

The Foskor Acid Division concrete structures have been exposed to various chemicals under the operations of the company over the years in operation. It is Foskor's duty to provide a safe and healthy working environment for its employees and surroundings. One way of doing this is carry out a Structural Audit regarding the real status of the concrete structures and buildings on their premises.

Assessment of the concrete elements will highlight the risks on the concrete structures and buildings and provide solutions for appropriate repairs and continuous maintenance procedures for the concrete structures and buildings to perform better in its service life.

Foskor has several Standard specifications listed on page 18, those applicable to the required services should be used for information and study purposes.

- From Foskor Standard Specification SS-000000-C-007-00, PSG -2.1 – Concrete, the information regarding the concrete strengths is as per the table below.

Table 1. Concrete Design strength

APPLICATION	GRADE	COMPRESSIVE CUBE STRENGTH (MPa)
Blinding	10	10
Mass Concrete	15	15
Foundations	40	40
Structures	40	40
Paving	30	30
Piling	40	40

- Foskor Specification SS-000000-C-007-00, PSG -recommendations
 - a) Substructural minimum cover = 80mm
 - b) Superstructural reinforcement minimum cover = 40mm
- Foskor Standard Specification FD 001 – 1.3.2 Design loads: The information below provides the service provider with design loads for the structures on site.

a) Dead Loads

Dead loads shall include the weight of the structure or vessel and all permanent equipment supported by the structure or vessel.



- Reinforced concrete :2400 kg/m3
- Structural steel :7850 kg/m3
- Solid Brick :1900 kg/m3
- Cladding Big Six profile cement fibre roof and Side Sheeting :15.2 kg/m2

b) Live Loads (Imposed Loads) – Unless otherwise specified on the Basic Engineering Drawings.

- Operating floors not occupied by equipment or stored materials. : 5.0 kN/m2 min.
- Stairways, platforms, landings, and walkways: - Process Building : 5.0 kN/m2
- Access Walkways : 3.0 kN/m2
- Roofs of all Buildings. : 0.5 kN/m2 (Refer Clause 5.4.3.3 SABS 0160)
- Roof maintenance load on any 10 m2. : 1.0 kN/m2 (Average)
- Encrustation loads due to material build-up must be allowed for throughout the plant.: 1.0 kN/ m2
- Office Area. : 4.0 kN/m2
- Electrical MCC Control Rooms. : 2.5 kN/m2
- Electrical MCC Control Rooms supporting equipment : 22.5 kN/m2 (U.O.N.)
- Equipment support areas: Floor members, including conveyor floors, must be checked for a central point load. This load is not to be applied in a combination with other floor live loads: 10 kN

C.1.3 Proposed Solution: Reason for this Tender

It is proposed that a professional structural engineer is appointed to offer professional services to conduct the concrete structural integrity assessment which should include but not limited to.

- a) Perform a full inspection of all the concrete structures.
- b) Provide a detailed condition assessment report to Foskor.
- c) The report shall consist of and not limited to the following inspection methodology and techniques; photography and drawings; best practice scientific analytical techniques; tests performed; interpretation of results; conclusions and recommendations for repairs.
- d) The service provider is required to perform structural analysis. The structural specification information has been extracted to assist with the study, however does not limit the service provider to obtaining more information to carry out this study.
- e) The service provider is required to perform concrete **compressive tests** using the coring method to determine the compressive strength of the concrete structural elements.
- f) For condition of the concrete due to airborne marine salts and site-generated chemical contamination as well as carbonation. Sample taken for coring will also be used for **carbonation testing**.
- g) Should any other specimen tests be required such besides coring of concrete samples etc.; the tests shall be carried out at a SANAS accredited laboratory. Should some of the tests be required to be performed at a research laboratory then the quality management system adopted by that lab shall be provided.



- h) All equipment and tools to be used (where applicable) shall be calibrated and up to date and a copy of the certification provided to Foskor.
- i) The appointed service provider can give recommendations for other non-destructive testing methods to determine the real status of the concrete structures in the plant.

C.2. Legislation, Standards and Codes of Practice

Latest revisions or amendments of the listed codes and specification are applicable to this contract:

Number	Title / Description	Revision
COP6	Control Of Construction Work	Latest
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
S28 NEMA (1998)	Duty and care of environmental degradation	Latest
SANS 1200 A	GENERAL	Latest
SANS 1200-D	EARTHWORKS	Latest
SANS 1200-DA	EARTHWORKS (SMALL WORKS)	Latest
SANS 1200-DB	EARTHWORKS (PIPE TRENCHES)	Latest
SANS 1200 G	CONCRETE (STRUCTURAL)	Latest
SANS 1200 G	CONCRETE (STRUCTURAL)	Latest
SANS 1200 GA	CONCRETE (SMALL WORKS)	Latest
SANS 1200-LB	BEDDING (PIPES)	Latest
SANS 1200-LD	SEWERS	
SANS 1200-LE	STORMWATER DRAINAGE	Latest
SANS 1200-LG	PIPE JACKING	Latest
SANS 1200-M	ROADS GENERAL	Latest
SANS 1200-ME	SUBBASE	Latest
SANS 1200-MF	BASE	Latest
SANS 1200-MG	BITUMOUS SURFACE TREATMENT	Latest



SANS 1200 MJ	SEGMENTAL PAVING	Latest
SANS 1200 MK	KERBING AND CHANNELING	Latest
SANS 1200 MM	ANCILLARY ROADWORKS	Latest
SASTT-TS-TT2	SASTT TECHNICAL STANDARD TRENCHLESS	Latest
	CONSTRUCTION WORK: PART TT2: PIPE BURSTING	Latest

All work listed in this scope of work shall be completed in accordance with the specifications and codes as listed above. It is the responsibility of the Tenderer to be in possession of the latest standards and codes as listed above in the execution of this project.

The following SANS specifications are also referred to in this document and the Service provider is advised to obtain them from Standards South Africa (a division of SANS) in Pretoria.



C.3. Foskor Specifications

All work listed in this scope of work shall be completed in accordance with the specifications listed below.

Those specifically applicable to this Tender is **marked with "YES"**, **however** it does not exclude other specification listed or implied, and it remains the Tenderer's responsibility to ensure that work execution and tender prepared is in line and meets the requirements of all standards indicated or not.

Number	Title / Description	Version	Applicable
OTHER	STANDARDS on this Tender		
APPLICABLE	FOSKOR SPECIFICATION on this Tender		
E003	Industrial Electrical Installations	Latest	
EC1	Installation, Testing and Commissioning of Electrical Equipment	Latest	
FC005	General Earth Works to Plant and Building	Latest	
FD001	Design Criteria for Structures	Latest	
FG001	General Requirements for Projects	Latest	Yes
FL001	Design & Fabrication Criteria for Ladders & Walkways	Latest	
FM001	General Mechanical Specification	Latest	
FM003	Welding of Fabricated Equipment	Latest	
FQ001	General Engineering Quality Requirements	Latest	
FS 001	Specification for the Fabrication & Erection of Structural Steel Work	Latest	
GM5	Pipe Standards Including Auxiliary Equipment	Latest	
GM6/COP9	Engineering Drawing and Document requirements	Latest	
GQ1	Quality Control Procedure for Contractors	Latest	Yes
GS1	Structural Steelwork and Plate Work Fabrication and Erection	Latest	
MC001	Corrosion Protection Colour Coding	Latest	
MC004	General Plant Painting Specification Low Temperature	Latest	
MC006	Repair/Touch-up of Damaged Steelwork	Latest	
MC009	General Plant Protection High Corrosive Areas	Latest	
SS-000000-C-006	General specification for concrete construction	Latest	
SS-000000-C-007	Concrete specification	Latest	
SS-000000-C-012	Grouting	Latest	
SS-000000-Q-001	General quality requirements	Latest	Yes
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	
DD-000000-C-001	Civil design criteria	Latest	
DD-000000-S-001	Structural design criteria	Latest	



It is the responsibility of the Tenderer to be in possession of the latest specifications as listed above or implied in the execution of this project.

The Service provider is referred to the Specification mentioned for full descriptions of materials and methods referred to in these Bills of Quantities/Lump Sum documents, insofar as they apply.

The Service Provider is advised to study the referred to specification before pricing Bills of Quantities/Lump Sum documents.

No claim whatsoever will be allowed in respect of errors in pricing due to brevity of description of items in the Bills of Quantities/Lump Sum documents which are fully described when read in conjunction with the relevant Preambles and/or Specifications.

Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9000 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

The Service Provider is hereby informed that where SABS/SANS Specifications are referred to in these Bills of Quantities/Lump Sums documents and Specifications thereto, then ONLY the Specification of Work Clauses will apply. The method of measurement and payment clauses will NOT apply to this Contract.



C.4. Project Requirements

The main works is of Structural Concrete Audit and requires the supply of all (including but not limited to):

- Specifications.
- Labour;
- Tools;
- Consumables;
- Transport;

The Service Provider shall further ensure that all work is executed with a detailed quantity of work assessments and analysis and/or design detail is provided and complies with the specifications as set out in this document.

C.5. Plant Data

All work listed in the document will be performed at the **FOSKOR RICHARDS BAY PLANT, 21 JOHN ROSS PARKWAY**

C.6. Drawings and/or Equipment Manuals

The following drawing, data and/or manuals remain the property of Foskor (Pty) Ltd and shall be returned to Foskor (Pty) Ltd on completion of the work.

Drawing No.	Title / Description	Revision

All work listed in this Scope of Work shall be completed in accordance with the latest copies of drawings/specifications as listed above. It is the responsibility of the Tenderer to ensure that the Tenderer has the latest copies of drawings/specifications as listed above for the execution of this project.

On completion of the project the Service provider must certify all documentation and drawings for correctness and conformance, specifying which standards and regulatory acts these conform to.



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C.7 Scope of Work - General

The scope of work calls for a **Professionally Registered (ECSA) Structural Engineer** and includes for the following:

The Service provider to supply as per the complete Bill of Quantities submitted and which includes but not limited to assessment, analysis and design detailing. The supply of any equipment/tools that is suggested by the service provider must be approved by Foskor.

The Service Provider provides his tender method of assessment and work program. The period in the contract covers the handover to the successful supplier and the final completion of the assessment, including handover back to Foskor. No delays shall be entertained.

All specialized equipment/tools shall be utilised as per recommendation by the manufacturer of the supplied tools/equipment. Any deviations from Manufacturer recommendations must be suitably justified.

All completed work will be inspected and approved by Foskor. The service provider shall ensure that all 'acceptance approvals' are received from Foskor (Pty) Ltd before proceeding to the next stage.

The project to be undertaken in terms of the latest revisions and amendments of all relevant legislation, standards, and Codes of Practices. The service provider will complete the Works in accordance with all relevant codes of practice and statutory obligations, municipal regulations, and all other relevant requirements. The Service Provider is specifically reminded of the requirements in terms of the Occupation Health and Safety Act, Act 85 of 1993 and latest amendments in terms of this project.

The design, selection, and supply of all equipment/tools to be supplied by the Service provider shall be approved by Foskor.

All work carried out shall be in accordance with professional best practice and the applicable SANS standards and codes of practice.

C.7.1 Scope of Work - Extent

The Service provider understands and shall fully satisfy the scope of required services, as described in the tender **FTP /23/MN** handed out at the site inspection held on (date) _____, which is generalized as follows:

- Assessments and Inspections.
- Concrete structural analysis.
- Assessment Report.



C.7.1.1 Conducting a Concrete Structural Audit

Tenderer to submit proposed methods for determining the integrity of the concrete structures, observations should include but not limited to the following.

- a) Foundation Strata.
- b) Visual Inspections.
- c) Settlement of columns and walls.
- d) Cracks in internal and external columns, walls, joint at plinths and beams.
- e) Cracks due to earth movement (settlement and heaving).
- f) Leakages, Dampness and damages to internal and external walls and floor slabs.
- g) Concrete disintegration, spalling, exposed reinforcement, and corrosion of reinforcement.
- h) Acid damage to all structural elements.
- i) Test and repair Recommendations.
- j) Provide a detailed condition assessment report with images of damage, drawings, and recommendations for repairs.
- k) Risk Rating Matrix.

C.7.1.2 Required Physical test

Service provider will have to use a SANAS accredited laboratory, approved by a Foskor representative. The following test are compulsory; however, should the service provider require other non-destructive tests approval prior to conducting those tests should be obtained from a representative at Foskor.

- a) Compressive strength – Concrete Coring
- b) Concrete Carbonation test – Concrete Coring

C.7.1.3 Included Work

This contract provides for the Service provider to fulfil the following functions:

- a) The maintenance of records and accurate measurements of the works for certification such as coordinating cherry picker schedule, managing sampling, performing HIRA and other required by the Employer.
- b) The compilation of drawings on completion of the works.
- c) The supply and application of all safety procedures, equipment, and personal protective equipment applicable to the works.
- d) The supply of all equipment, transport, labour, incidentals, fuels etc. and supervision to carry out the works.



Until otherwise notified, Foskor (Pty) Ltd have designated Mr. Humphrey Mabunda (Project Supervisor), Mr. Nhlakanipho Myeni (Project Supervisor), Ms. Nelisiwe Bodibe (Project Supervisor), Mr. Njabulo Mthembu (Learner Project Supervisor) and Mr. Wandile Mhlongo (Project Engineer) to act as Foskor representatives, and they are authorized to give instructions and to provide information to you on Foskor's behalf.

1. It is preferred that the supplier submit contact details for a designated 'point of contact' person who will be authorized to receive information and act on supplier's behalf.
2. Foskor's Health & Safety Representative will deal with all matters relating to the Health & Safety specifications and Construction Regulations relating to this assignment.
3. A pre-requisite of this contract is that the supplier confirms that he shall carry the necessary professional/construction indemnity insurance cover to the extent of the liabilities contemplated.
4. The Tenderer should determine the work methodology and approach. However, it is imperative that the outcome of the work meets all the criteria related to this project.

C.7.2 Site Conditions

The site is located on the Foskor (Pty) Ltd Richards Bay Plant comprising of the Sulphuric Acid Plant. The Tenderer is deemed to have viewed the site and to have thoroughly acquainted themselves with the extent, nature and conditions affecting the work to be done before submitting his tender.

Access to the area is free of obstructions, however the Service provider must take note that unexpected unsafe conditions e.g., acid leaks, if any will take priority for containing of these and returning to a safe working condition.

It will be imperative for the successful Tenderer to liaise with the Foskor (Pty) Ltd.'s designated project leader (Foskor representative) to ensure safety whenever site access is required.

Be cautious of Foskor equipment, employees and Service provider employees always doing their routine maintenance and daily duties in the area.

As it will be deemed that the prevailing conditions have been considered when tendering, no claims for extras arising from failure to observe all site conditions will be admitted.

C.7.3 Services which are known to exist on the site

The following services exist on the site:

- Water, sewer, stormwater, and fire water.
- Electrical and instrumentation cables.
- Acid pipes.
- Medium and high-pressure steam pipes.



C.7.3.1 Foskor Supplied Services

Foskor (Pty) Ltd shall be responsible for:		Applicable:
1	Supply a copy of the relevant Foskor Procedure Specification(s).	refer C.3
2	Supply a copy of reference drawings if required.	refer C.6
4	Provide access to electricity connection points <ul style="list-style-type: none"> Any connection and consumption will be monitored by Tenderer and verified by Foskor on defined intervals (usually at the beginning and end of contract) 	YES
5	Provide access to potable water <ul style="list-style-type: none"> Connection and consumption would need to be monitored by Successful Tenderer (Service Provider) and verified by Foskor on intervals (usually at the beginning and end of contract) defined by Foskor 	YES
6	Provide a suitable area for site establishment for Successful Tenderer (Service Provider). <ul style="list-style-type: none"> Successful Tenderer to formally in writing motivate, request and define the area and services it deems necessary for site establishment. Foskor will at its own discretion (if request is approved) allocate a site establishment area, however Foskor can should it deem necessary retract or re-define its approval by giving reasonable notice to the successful Tenderer 	ON REQUEST
7	Provide access to ablutions facilities. (not change rooms) <ul style="list-style-type: none"> Successful Tenderer (Service Provider).s workers to be fully dressed in required PPE when coming on site. The successful Tenderer to ensure that its workers/subcontractors/ supplier that are making use of facilities, do so in an orderly and well-mannered way. Successful Tenderer is not allowed to make use of Foskor's change room or tearoom facilities unless agreed to in writing. The successful Tenderer might be called on to assist with the maintenance and cleaning of ablutions, should Foskor at its discretion be of the opinion that it be necessary. Cost associated with such cannot be claimed from Foskor (Pty) Ltd. 	YES
8	Assist in issuing of work clearances and HIRA certificates.	YES



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C.7.3.2 Successful Tenderer (Service Provider) Responsibilities

The successful Tenderer (Service Provider) shall be responsible for (inter alia):		Applicable:
1	Supply of own labour, supervision, equipment, specialized manpower and other staff to fulfill the scope of work.	YES
2	Supply suitable (approved) Personal Protective Equipment (PPE)	YES
3	To ensure that all work is reviewed by designated Foskor (Pty) Ltd representative at all stages and/or agreed milestones of the project. All work completed needs to be inspected and approved by the designated Foskor representative (e.g. Project Supervisor/ Manager)	YES
4	After all assessments on all the concrete structures the successful Tenderer shall conduct final inspection of all work together with designated Foskor (Pty) Ltd representative to compile SNAG list.	YES
5	To ensure that all acceptance approvals as per the Quality Control Policy (QCP) are received before work is finally handed over.	YES

Note that concerning above:

- i. No claims towards losses will be accommodated.
- ii. All items that the Successful Tenderer will bring to Foskor (Pty) Ltd, will be subjected to review and approval by Foskor (Pty) Ltd and shall conform to Foskor procedures.

C.7.4 Certification by Recognized Bodies

Only Tenderers registered with the relevant Board (ECSA) of South Africa in accordance with the Regulations of the Occupational Health and Safety Act will be accepted and permitted to do work under this contract.

C.7.5 Requirement for the termination, diversion, or maintenance of existing services

Only Applies if/where electrical conductors, pipe conduits, electrical transmitters, ducting or ventilation services are affected. Unless identified as part of the scope, the Service Provider must immediately bring to Foskor's attention any previously unspecified or obstructing services existing in his area of work and without terminating/diverting/hindering such services.



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C.7.6 Nominated Sub-Tenderers

Should the tenderer anticipate using Subcontractors for any part of the scope, these must be specified below.

The following Sub-Tenderers are nominated:

Contractor	Concerning Works	Contact

C.7.7 Invoicing and Payment

Payment will be made by Foskor (Pty) Ltd, after approval (with consideration for the construction, completion and defects corrections of the Works) by the Foskor (Pty) Ltd's Project Representative (i.e. Engineer, Project Supervisor) of the submitted Payment Certificate to the Tenderer within **30 (thirty)** days from the date of the Tenderers approved invoice.

The invoice shall be approved in accordance with the provisions of Foskor (Pty) Ltd.'s terms and conditions.

The invoice submitted is to be in a format acceptable to the Foskor (Pty) Ltd's Project Representative and need to contain the following minimum information:

- Company details, registration no and VAT registration no,
- Purchase Order no & Date of Invoice,
- Copy of Purchase Order,
- Detail description of work done to date,
- Value of the current claim and work done (excl. VAT),
- VAT charged.

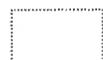
C.7.8 Standing Time

Standing time is defined as a period measured in hours, when the Service Provider's normal operational cycle is affected by causes caused by Foskor (Pty) Ltd and results in normal stoppage or major disruption to the regular progress of the Works.

Payment to the Service Provider for standing time will be certified only where, in Foskor (Pty) Ltd's opinion, the delay was clearly beyond the reasonable control of the Service Provider and the Service Provider further took all reasonable measures to avoid or reduce such delay and such delay imposed direct costs to the Service Provider.



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C.7.9 Progress of Works

Should Foskor (Pty) Ltd at any time be of the opinion that the rate of progress of the Works or any part thereof is too slow to ensure the completion of the Works or any part thereof by the Completion Date, Foskor (Pty) Ltd shall so notify the Service Provider in writing, with specific reference to this Clause, and the Service Provider shall thereupon, subject to the approval of Foskor (Pty) Ltd take such steps as are necessary to expedite progress so as to complete the Works or the said part thereof by the Due Completion Date.

C.7.10 Penalty

If the Service Provider, by the Due Completion Date, fails to complete the Works to the extent which entitles him to receive a Certificate of Practical Completion, the Service Provider shall be liable to Foskor (Pty) Ltd for an amount of **0.1% for every Calendar Day that the works is late or such portion of the contract price as is associated with that part of the Works.**

The imposing of such penalty shall not relieve the Service Provider from the obligation to complete the Works or from his obligations and liabilities under the Contract.

C.7.11 Claims: Extension of Time for Completion, Additional Payments or Compensation**C.7.11.1 Claims Procedure**

The following provisions shall apply:

- i. Claims are to be submitted in writing within **7 days** after the circumstances, event, act or omission giving rise to such claim has arisen or occurred to the Foskor (Pty) Ltd Project Representative
- ii. Submit **written notice** to the Foskor (Pty) Ltd Project Representative of the intention to claim within **7 days** after the circumstances, event, act or omission giving rise to such claim has arisen or occurred. The Notice and subsequent claim to set out:
 - a. Particulars of the circumstance, event, act or omission giving rise to the claim concerned;
 - b. Provisions of the portion of the contract on which he intends to make the claim;
 - c. Length of extension of time, if any, claimed and the basis of calculation thereof, and
 - d. The Price Adjustment, if any, claimed and the basis of calculation thereof.
- iii. If the Contractor cannot reasonably comply with any of the provision above within the said period 14 days, he shall:
 - a. Notify the Foskor (Pty) Ltd Project Representative in writing of his intention to make the claim and comply with such requirements as he reasonably can;
 - b. Deliver additional information in writing that is reasonably required by Foskor (Pty) Ltd; and
 - c. Comply as soon as practical with such requirements as described above in this clause, within a time agreed to by the Foskor (Pty) Ltd Project Representative.
- iv. In the event of failure to comply to any of the provisions, the claim would not be accommodated and Foskor (Pty) Ltd would be discharged of all liability in connection with the claim.



C.7.11.2 Extension of Time for Completion

The whole works shall be completed within the time agreed upon.

If any circumstances of any kind whatsoever may occur and as such, fairly entitle the Service Provider to any extension of time for the completion of the works or portion thereof, then the Foskor (Pty) Ltd Project Representative will consider a claim duly submitted.

C.7.12 Cancellation of the Contract by Foskor (Pty) Ltd

If:

- (a)
 - (i) The estate of the Service Provider shall be sequestrated (provisionally or finally), or
 - (ii) The Service Provider shall publish a notice of surrender of his estate as insolvent, or
 - (iii) The Service Provider, being a company or a close corporation, shall go into liquidation (provisionally or finally), or
 - (iv) The Service Provider shall assign the Contract without the consent in writing of Foskor (Pty) Ltd having first been obtained, or
 - (v) The Service Provider shall enter into a compromise with the general body of his creditors, or
 - (vi) The Service Provider shall have an execution levied on his goods, or
- (b) the Foskor (Pty) Ltd Project Representative shall certify in writing to Foskor (Pty) Ltd, and to the Service Provider/Consultant, with specific reference to this Clause, that in his opinion the Service Provider/Consultant:
 - (i) has abandoned or repudiated the Contract, or
 - (ii) has, without reasonable excuse, failed to commence the Works in terms of the time allowed and agreed to, or
 - (iii) has suspended the progress of the Works without due cause, or
 - (iv) has failed to proceed with the Works with due diligence, or
 - (v) is not executing the Works in accordance with the Contract, or
 - (vii) has, without the approval of the Foskor (Pty) Ltd Project Representative, subcontracted any part of the Contract, or
 - (viii) has failed to provide the Surety ship, Professional Indemnity within the time stipulated and for 14 days after receiving a written notice from the Foskor (Pty) Ltd Project Representative, referring specifically to the default concerned and to this Clause, failed to remedy the default,

Foskor (Pty) Ltd may, by written notice to the Service Provider, terminate the Contract and withhold any payments due until further notice.

C.7.13 Urgent remedial work

All designs changes or remedial action must be communicated to the Foskor Engineer or the authorized Foskor Designate. Approval of such must be sought and received as early as not to impose undue costs and delays. Should there however be remedial work necessary, the Service Provider shall, upon approval from the Foskor Engineer/Designate, effect these with care, accuracy and speed, so as not to impose undue extension of time and /or cost.



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If any work as done by Foskor (Pty) Ltd is work which the Service Provider was liable to do at his own expense under the Contract, all costs incurred by Foskor (Pty) Ltd in so doing shall be determined by Foskor (Pty) Ltd or its agent and shall on demand be paid by the Service Provider to Foskor (Pty) Ltd.

C.8. Foskor Safety Documents to be submitted, Environmental and Site Management

C.8.1 SHREQ Requirements

The successful Tenderer will be required to comply and ensure continuous compliance with Foskor standards and national regulations:

- Compliance with COP6 (Service Provider Management).
- Compliance and signing of Section 37(2) Agreement in terms of the OHSAct at the Foskor (Pty) Ltd Safety Department.
- Compliance with Legislation requirements which includes the OHSAct, NEMA (National Environment Management Act) and other relevant applicable Legislation.

* *copy of requirements available from Foskor SHREQ Department.*

C.8.2 Environmental Management Specifications

In order to ensure that the construction works is designed for an environmentally sensitive area, strict compliance to the Environmental Management Plan (EMP) guidelines may be requested after appointment of the Service Provider.

The EMP shall be part of the terms of reference for all contractors/consultants, sub-Service Providers/consultants and suppliers.

A copy of the EMP requirements is available from Foskor (Pty) Ltd SHREQ department.

All MSDS's to be submitted to Foskor (Pty) Ltd.

Waste disposal needs to comply to Foskor (Pty) Ltd Waste Management Plan.

C.9 OHS 1993 Health and Safety Specification

This specification covers the health and safety requirements to be met by the successful Tenderer (Service Provider) to ensure a continued safe and healthy environment for all workers, employees and subcontractors/consultants and for all other persons entering the site of works.

This specification shall be read with the Occupational Health and Safety Act (Act No 85 and amendment Act No 181) 1993, and the corresponding Construction Regulations 2003, and all other safety codes and specifications referred to in the said Construction regulations.

C.9.1. Health and Safety Induction

The successful Tenderer (Service Provider) shall ensure that all employees under his control, including the subcontractors/consultants and their employees, undergo a health and safety induction training course by a Foskor competent person before entering site.



- a. The Service Provider shall ensure all his/her personnel have attended the Safety Induction, by Foskor (Pty) Ltd before they enter site.
- b. The Service Provider on entering site, must wear Foskor minimum required PPE at all times namely safety glasses, acid resistant overalls, safety harnesses (on heights), safety boots or steel cap gumboots, ear protection, Tychem suite (when working in the vessel/Dry Tower) and **gas masks (Halfmask double filter – screw type with filter type A1B1E1K1 – North Safety Product or similar approved product) and goggles (Uvex ultravision – W1663459B – DIN CE 0196) preferably in a pouch.** Should a Service Provider be found on site without the above-mentioned safety clothing, he will be removed from site and will not be allowed to return. FFP3 dust mask fitted with an exhalation valve must be used when working in dust in on the B&D Store.
- c. **Overalls must be Blue Sweet Orr overall (80% Ployester 20% Viscose Rayon Acid repellent) with Company names either on front of jacket or back OR Blue North Safety Acid/Flame overall (Flame retardant acid resistant anti-static ATPV 15.4CAL/CM2) with company names either on front of jacket or back and fluorescent reflective strips to be stitched onto sleeves and on the knees.**
- d. The Service Provider shall demarcate the relevant work area. The Service Provider shall supply and erect an appropriate name board with all relevant information and contact details at the work area.
- e. The job risk assessment shall be carried out at the start of each shift. This risk assessment shall cover all activities planned for the relevant shift. The risk assessment shall be submitted to Foskor (Pty) Ltd at the start of each day shift and each night shift.
- f. The Service Provider must take safety precautions when working on site.
- g. The Service Provider must remove all their equipment within 48 hours after project completion/closure.
- h. A complete safety file to be submitted to Foskor (Pty) Ltd Safety Department before any work commences.
- i. The Contactor's vehicle when entering the Plant must have rotating orange lights on at all times.
- j. **The Service Provider and their employees must undergo a full medical at either Foskor (Pty) Ltd's Clinic or Caredoc Richards Bay or their approved by Foskor (Pty) Ltd. A full lung function test must be done. If a project is longer than twelve months, then a complete medical including lung function tests must be done again and thereafter the lung function test. Medical certificates are valid for one year only. For medical costs and bookings please contact Sister Nkosazana Nxumalo at Foskor (Pty) Ltd Clinic on 035 902 3287.**
- k. A once-off fee is also required for access cards from Foskor Security. Please contact the Foskor (Pty) Ltd Security Reception at 035 902 3267 for information.
- l. No access to elevated platforms, roof and scaffolding will be allowed during rainy days.

MANDATORY AS ENVISAGED BY SECTION 37(2) OF THE ACT

By the submission of a tender, any tenderer will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act.

As a mandatory the successful tenderer will be deemed to be the "principal Service Provider" and an employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed in accordance with the Act.

It is further noted that: -



- a) The Service Provider shall comply with all Foskor Regulations and Safety Standards.
- b) The Service Provider shall fully comply with the OHS Act (Act 85 of 1993).
- c) The Service Provider shall fully comply with Covid-19 compliance as part of Section 37(2) of the Act.

IMPORTANT NOTE

The above is a summary of some of matters as defined in the Act. The successful Tenderer (Service Provider) is required and advised in his own interest to make a careful study of the Act and the Construction regulations.

Ignorance of the Act and the Regulations will not be accepted in any proceedings, as valid reason if non-conformance to the Act and the Regulations are committed.

C.10. Applicable General Conditions of Contract

Unless expressly otherwise indicated, Foskor General Conditions of Contract and the FIDIC terms of Contract would apply, and is available from the Manager Procurement Foskor Richards Bay.

C.11. Quality Management

The successful Tenderer is to adhere to Foskor (Pty) Ltd's Quality Management System and specifications incorporated in this Tender Document.

To ensure that all installations are carried out in a controlled manner, the Service Provider shall demonstrate this by means of the internal quality system, which shall include as a minimum a QCP for each piece of equipment. The QCP must be approved by Foskor before commencement of any work.

C.12. Quality Control:

- i. A detailed QCP (Quality Control Plan) shall be submitted within 3 days of contract award.
- ii. Quality of work must be monitored and controlled at a high level at all times.
- iii. At each hold and witness point all work shall be suspended until the specified inspection has been completed and the QCP updated and signed accordingly by Foskor (Pty) Ltd or its representative.
- iv. At each milestone, the designated Foskor (Pty) Ltd Quality Representative must approve the quality and standard of work being produced.
- v. It shall be the responsibility of the Successful Tenderer (Service Provider) to give Foskor (Pty) Ltd timely notice of hold and witness points requiring their intervention.

C.13. Tender Returnable Document

- i. Priced Bill of Quantities.
- ii. Initial program
 - a. Submit Bar Chart/Gantt Chart.
 - b. Working day and working hours of the week.



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- iii. Record of previous similar contracts undertaken.
 - a. Submit record of similar projects completed indicating start and end dates of projects with proof of completion for projects executed outside of Foskor Acid Division.
 - b. Submit traceable reference with contact details to be included for verification.
 - iv. Project team structure
 - a. Submit organogram indicating team structure and the number of personnel committed to the project as well as the capacity of crews committed to this project.
 - b. Demonstrate level of skill of project key personnel (Contracts Manager/ Professional Engineer/ Technologist/ Engineer's Assistant/Detailer or Draughtsman by indicating formal training/qualifications and/or experience in practice).
 - v. Proof of Professional Registration with ECSA.
 - a. Submit certificate of registration with a valid registration reference.
 - vi. Signed compulsory site inspection certificate.
 - vii. Proof of Valid Indemnity
 - a. Submit Proof of active insurance

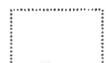


Section D – Schedule of Quantities

Supplier to submit with this tender Schedules of Quantities or Bill of Quantities for all work to be done under this scope.



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Item	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
1	PRELIMINARY AND GENERAL				
1.1	Medicals , Inductions and Plant Access	Sum	1		
1.2	PPE	Sum	1		
1.3	Travel and Accomodation	Sum	1		
Total Carried to Summary					

2	Inspection				
<p>Notes: Rate for inspection of building should include for a full inspection of each section which should entail the visual inspection of the structure, all checks , tests and necessary steps to determine the accurate status of the structures.</p> <p>The item will be paid per section completed as per the attached drawing.</p>					
2.1	Structural Assessment - Section 1	Sum	1		
2.2	Structural Assessment - Section 2	Sum	1		
2.3	Structural Assessment - Section 3	Sum	1		
2.4	Structural Assessment - Section 4	Sum	1		
2.5	Structural Assessment - Section 5	Sum	1		
2.6	Structural Assessment - Section 6	Sum	1		
2.7	Structural Assessment - Section 7	Sum	1		
2.8	Structural Assessment - Section 8	Sum	1		
2.9	Structural Assessment - Section 9	Sum	1		
2.10	Structural Assessment - Section 10	Sum	1		
2.11	Structural Assessment - Section 11	Sum	1		
2.12	Structural Assessment - Section 12	Sum	1		
2.13	Structural Assessment - Section 13	Sum	1		
2.14	Structural Assessment - Section 14	Sum	1		
2.15	Structural Assessment - Section 15	Sum	1		
2.16	Structural Assessment - Section 16	Sum	1		
2.17	Structural Assessment - Section 17	Sum	1		
3	Testing				
<p>Notes: Rate for specimen testing must be inclusive of tools, extracting sample, transporting, testing, laboratory results, reporting on results and everything required for this process.</p>					
3.1	Compressive strength	No.	51		
3.2	Concrete Carbonation	No.	51		
3.3	Other Tests recommended	Sum	1		
4	Reporting				
<p>Report shall consist of and not limited to the following; inspection methodology and techniques; photography and drawings; best practice scientific analytical techniques; tests performed; interpretation of results; conclusions and recommendations.</p>					
		Sum	1		
Total Carried to Summary					

SUMMARY

Forwarded from Bill

Preliminary and General

R -

Inspection, Testing and Reporting

R -

Sub Total

R -

Vat

R -

TOTAL:

R -

Tender Signature and Company Stamp:

Section E – Evaluation Criteria

Suppliers will be evaluated as per evaluation criteria below.



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Tender No. : FTP /23/MN				
Project Title : PROFESSIONAL STRUCTURAL ENGINEER TO CONDUCT A STRUCTURAL INTEGRITY AUDIT FOR ALL CONCRETE STRUCTURES IN THE FOSKOR ACID DIVISION				
Date : 18/09/2023				
No.	Mandatory Documents	Comments		
1	Initial Project schedule (Bar chart/Gantt chart)	Proposed delivery		
2	Method Statement	Adherence to scope of work and safety		
3	Traceable Record of Similar Contracts Undertaken and References	Level of experience		
4	Project Team Organogram indicating C.V.'s of individuals	Level of competency of project team		
5	Site Inspection Certificate	Signed by Foskor Project Leader		
6	Priced Bill of Quantities completed in Foskor format	Signed by Tenderer		
7	Valid Professional Indemnity			
TECHNICAL REQUIREMENTS (Evaluation Criteria)				
No.	Technical Criteria Description	Contribution%	Proof/Documents to be submitted	Notes
1	Mandatory - Compliance with Scope of Work Specifications - Weight not to be less than 20%			
a)	Tender returnable documentation submitted for technical evaluation. Scoring: Yes = 5%, No = 0%	5%	Provide mandatory documents as requested on section C.13 on page 33 of the tender document.	Tender returnable documents are essential for a complete evaluation of bidder.
b)	Suitability of methodology in alignment with safe work procedure and care of environment. Qualitative measure. Scoring: Yes(Acceptable) = 15%, No(Not acceptable) = 0%	10%	Submit a method statement that is relative to the project in subject.	Methodology and procedure for assessments is the core of a technical submission and demonstrates whether the supplier understands the scope in subject.
c)	Detailed breakdown of schedule of rates and costs, priced bill of quantities as per Foskor BoQ format Scoring: Yes = 5%, No = 0%	5%	Provide priced bill as per Foskor issued format.	A completed bill of quantities and rates in a standard Foskor format is important in maintaining consistency in pricing and evaluation thereof and also pronounces arithmetic and typing errors.
2	Company / Organisation Relevant experience - Weight not to be less than 30%			
a)	Previous experience in similar work, environment, magnitude and complexity. Previous experience with concrete structural Integrity Audits 3 or more References will be 10% 2 References will be 5% 1 Reference will be 2.5% Range: Highest = 10% and Lowest = 0%	10%	Submit a list of projects undertaken and completed with description, time of project start and completion, project cost as well as appointment letters and completion certificates with contact details.	Records of previous projects successfully completed by the supplier provide an indication of the level of experience.
b)	Valid Professional Indemnity for the value of R 10 000 000.00 or more. Scoring: Yes = 10%, No = 0%	10%	Submit proof of valid insurance of the value of R10 000 000.00	
3	Senior Engineer/ Technologist (Team Leader) - Weight not to be less than 30%			
a)	Professionally registered Civil Engineer/Technologist (ECSA). Scoring: Yes = 10%, No = 0%	10%	Submit proof of ECSA registration	Records of registration indicate competency of candidate
b)	Experience Post Professional Registration Scoring Previous experience with design or construction of concrete structures Relevant experience 10 years and greater is 10% Relevant experience of 1 to 9 years is 1% to 9% respectively Range: Highest = 10% and Lowest = 0%	10%	Submit CV with list of projects undertaken and completed with description, time of project start and completion, project cost as well as references with contact details.	Records of previous projects successfully completed by the engineer/technologist provide an indication of the level of experience.
c)	Experience conducting Structural Integrity Audits Scoring Previous experience with conducting Structural Integrity Audits/ Assessments 3 or more References will be 10% 1-2 References will be 2.5% and 5% respectively Range: Highest = 10% and Lowest = 0%	10%	Submit CV with list of projects undertaken and completed with description, time of project start and completion, project cost as well as references with contact details.	Records of previous projects successfully completed by the engineer/technologist provide an indication of the level of experience.
4	Engineer's Assistant - Weight not to be less than 20%			
a)	Qualified Civil Technician, Technologist or Engineer. Scoring: Yes = 10%, No = 0%	10%	Submit Candidate's diploma/Degree qualification	Records of qualification indicate competency of candidate
b)	Experience Scoring Previous experience with design or construction of concrete structures Relevant experience 5 years and greater is 10% Relevant experience of 1-4 years is 2% to 8% respectively Range: Highest = 10% and Lowest = 0%	10%	Submit CV with list of projects undertaken and completed with description, time of project start and completion, project cost as well as references with contact details.	Records of previous projects successfully completed by the engineer/technologist provide an indication of the level of experience.
5	Detailer/ Draftsman - Weight not to be less than 10%			
a)	Qualified draftsman - NQF Level 5 Scoring: Yes = 5%, No = 0%	5%	Submit Candidate's qualification	Records of qualification indicate competency of candidate
b)	Experience as a draftsman or detailer for structures (Steel/concrete) Scoring Relevant experience 3 years = 5% Relevant experience 2 years = 3% Relevant experience 1 year = 1% Yes = 5%, No = 0%	5%	Submit CV with list of projects undertaken and completed with description, time of project start and completion, project cost as well as references with contact details.	Records of previous projects successfully completed by the engineer/technologist provide an indication of the level of experience.
Total Technical Score:		100%		
NOTE: In order for the bid to be considered, the bidder needs to score 70% and above, and comply to with mandatory requirements.				
DISQUALIFICATION CRITERIA **				
1 Mandatory documentation not submitted.				

Section F – Plant Sections

Suppliers should use this layout when pricing.



