

ENGINEERING AND DESIGN OF SEWER RETICULATION UPGRADE

Tender no: FTP /24/MN

Cost Code:

Revision¹: 0.1 see legend at bottom of page

Revised date: 25/01/2024

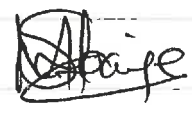
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COMPILED - RECOMMENDATION

Wandile Mhlongo	Project Engineer	503064		20/02/2024
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COMPREHENSION AND ACCEPTANCE BY CLIENT

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

Mannana Ntoampe	Environmental and Quality Specialist	501992		14/03/24.
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Comments:

APPROVAL TO PROCEED

Charles Mavuso	Snr. SHREQ Manager	502688		19/03/2024
Blessing Mbuyazi	Snr. Manager Projects	504427		21/02/2024
Sam Mbuyazi	GM Acid Division	500441		27/03/2024

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.

Comments:

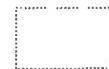


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Definitions:

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, Consultant 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 **Engineering and design of sewer reticulation upgrade.**

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.**

Project Time Schedule **Section D**

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 3144
Fax	035 797 3941
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 /24/MN	The Manager Procurement FOSKOR LIMITED 21 John Ross Parkway Richards Bay
Contract Title:	Engineering and design of sewer reticulation upgrade.	
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.

- In the case of registered courier delivery, 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:



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FOSKOR (PTY) LIMITED - (TENDER BOX)

21 John Ross Parkway

Richards Bay

3900

- Foskor shall take no responsibility for lost courier documents, prior to opening of tenders and the onus rests on Tenderer to keep duplicate of Tender Submission.

- A.2.3 A tender sent by fax shall not be accepted.
- A.2.4 In case of Tenderers not being local, not being in a position to hand deliver tender documents to the above-mentioned address, they may use the email address: tenderrbay@foskor.co.za. Late entries shall not be entertained.
- A.2. 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 **Divisional Lead: 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

Meeting Venue

From : To :

Report at Main Security Entrance

Please wear the following protective clothing:

Overalls (Acid Proof),
Hard Hat
Safety Shoes
Safety Glasses
Hearing protection
Gloves

Yes

Yes

Yes

Yes

Yes

No

IMPORTANT

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



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A.4 Examination and Completion of Documents

- A.4.1 The Tenderer shall examine all documents forming part of the Tender and submit the tender accordingly. Any drawings, addendums, annexures received with the Tender documents must be treated as a comprehensive pack of your Tender Submission.

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 Price schedule for successful completion of Engineering and design of Sewer and storm water upgrade phase
 - 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 (Organogram)
 - 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;
 - d) Any effect on the execution of the scope of supply;
 - e) Any effect on Foskor's overall program objectives.

Should 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, 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.
- 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, programme 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:
- Communicate to any person¹ 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.
 - Commit any act or omission that would be contrary to the Maintenance and Promotion of Competition Act 96 of 1979 and notices and regulations published in terms of that Act, especially the notice published in the Government Gazette of 2nd May 1986 or contrary to the Harmful Business Practices Act 71 of 1988.



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:				
1.01	Preliminary & General				A1
1.02	Stage 1				A2
1.03	Stage 2				A2
1.04	Stage 3				
1.05	Stage 4				
1.06	Stage 5				A2
1.07	Stage 6				
1.08					
	Sub Totals Sum (Excluding VAT)				A3
2.0	Add: VAT	15%			D
3.0	Total Tender Sum (Including VAT)				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



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

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

Commencement Date (Guide: 2 weeks from award of tender)

2 Weeks from date of purchase order

Snagging/Modification List Date

N/A

Completion of Stage 4 (Documentation) (Guide: Project duration)

16 Weeks from date of purchase order

Completion of Stage 6 (Close-out) (Start from completion of construction)

06 Weeks from completion of construction

Retention Payment:

N/A

TO BE SUBMITTED WITH THIS TENDER

The Tenderer shall submit with this Tender:

- 1 Initial programme (Bar Chart/Gantt Chart)
- 2 Milestones
- 3 Indicative Cash Flow projection
- 4 Record of experience with Purchase Order and Project Completion certificate
- 5 Proof of professional Indemnity
- 6 Proof of registration with professional body (e.g., ECSA)
- 7 Organogram and C. V's of Project Team Key members (Section B.3)

OTHER IMPORTANT NOTES

- 'Defects Liability Period' shall be that period in force for Foskop to call upon the Contractor/Consultant to rectify at no cost to Foskop (Pty) Ltd any defects of workmanship, quality or practice; and shall remain in force **in parallel with the Retention 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 Foskop (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 Contractor, to make up the time and work and complete the work at no cost to Foskop (Pty) Ltd.
- The Tenderer shall within **7 (seven)** days of contract award submit a final detailed work methodology and programme, and the final work methodology shall be verified and approved by Foskop (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; Retention

Unless otherwise agreed, Project Completion (handover), shall be deemed to be from date of Foskor issuing a Project Complete/Handover Certificate to the Contractor. 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 Programme to be Submitted

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

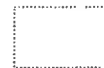
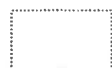
After the contract agreement is accepted (by signature of an agreement or acceptance of a Purchase Order) the dates shall be fixed and shall be applicable to the penalty clause as per agreement.

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

WBS ref	MILESTONES	To be Completed on



B.3 Schedule of Key Personnel on the Project

The Tenderer shall:

1. Submit a project organogram showing designations and authority.

As example:

Key Personnel	Name and Surname	Full/Part Time on site, off-site?	Employed, Sub-Contractor or Temp?	Years Related Experience
Project Manager / Owner				
Lead Engineer				
Assistant Engineer				
Resident Engineer				
Technician				
Draughtsman				

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.



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B.4 Schedule of Similar Contracts Undertaken

Please provide a list of work done on contract of which the Scope of Works that are similar to the one described in this document (or attach references)

[illegible]

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The diagram shows a rectangular domain with a grid of points. The domain is bounded by $x=0$, $x=1$, $y=0$, and $y=1$. A grid of points is shown, with a central point labeled 'x'. The points are arranged in a regular grid, with the central point being the origin of the coordinate system.

B.5 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,

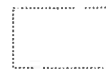
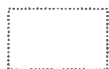
Yours faithfully

SIGNATURE: _____

ON BEHALF OF: _____

DATE: _____

AS WITNESS: _____



Section C: SCOPE OF WORKS

C.1.A Background

Foskor Acid Division is a chemical manufacturing plant that was first commissioned in 1976 and located in Richards Bay on the northern coast of KwaZulu Natal. Foskor Richards Bay plant is a vertically integrated producer of mono-ammonia phosphate (MAP) fertilizer and imports raw sulphur to manufacture sulphuric acid in the sulphuric acid plant. Phosphate rock is transported by rail from Foskor Mining Division in Phalaborwa to Foskor Richards Bay where it is processed in the production of phosphoric acid at the phosphoric acid plant. The sulphuric acid together with phosphoric acid is processed with ammonia at the Granulation Plant to produce MAP fertilizer. These final products are sold to international and local clients and are loaded on cargo ships through the Port of Richards Bay for international customers and loaded on road trucks and road tankers for local customers.

Foskor Richards Bay plant is characterized by a well-developed plant infrastructure comprising of a formalized waterborne sewer reticulation system in addition to other civil services. Bulk services are provided and managed by the City of uMhlathuze local municipality and include receiving Foskor sewer drainage by a gravity main that discharges to a municipal pumpstation some 100mm from eastern perimeter fence of the plant. This pumpstation pumps grey effluent to a municipal water treatment plant located approximately 3km further south. Internal Foskor sewer reticulation system is characterized by a combination of uPVC and PVC surfaced pipes in the built-up areas of the plant as well as a combination of asbestos cement, PVC, and HDPE sub-surface pipes in open areas of plant.

C.1.B Current Situation

It was previously observed that there are sections of Foskor sewer reticulation system that have reached the end of their service life and are no longer serving their intended purpose due to pipe damage such as pipe collapse, corrosion, and deformation. Due to process overflows and spillages during times of plant breakdown some of the toxic effluent contaminates groundwater and enters the sewer drainage systems through compromised sections of underground pipes which leads to severe corrosion of sewer pipes. Defective pipes are the main cause for contaminated groundwater ingress into the sewer reticulation system that can be highly toxic with a very low PH level up to 2.

Contaminated sewer is then conveyed in a Ø300mm asbestos cement gravity pipe starting from a communication manhole located on the southern perimeter of the plant to municipal pumpstation and subsequent water treatment plant where operational equipment in both municipal facilities is impacted and damaged resulting in breakdowns to municipal sewer reticulation system. Breakdowns in the municipal reticulation system result in sewer blockages in the municipal mains which has a ripple effect further upstream where Foskor sewer drainage backs-up and overflow within the plant thereby giving rise to health risks and potential production interruptions.

There is approximately 10% of asbestos cement pipeline that has been previously replaced with HDPE pipe. The entire Foskor sewer reticulation system requires upgraded to function safely in the current environment and will involve replacing pipelines and manholes with a more suitable and compatible material of construction such as HDPE or similar. Foskor intends to mitigate the possibility of contaminated sewer from integrating with sewer drainage.

Foskor has currently introduced a temporary lime dosing station to neutralize sewer entering the municipal stream.



C.1.C Proposed Solution: Reason for this Tender

Foskor wants to procure services of a qualified and competent service provider to undertake the design and specification preparation for the Foskor internal sewer reticulation upgrade as well as construction management of the works during construction.

Existing asbestos cement and PVC sewer pipes as well as brick manholes must be upgraded to more suitable materials of construction such as HDPE or similar and the relatively impacted subsoil conditions must be rehabilitated to stable and sound design state to restore safety of operations.

The original piping system was constructed over 45 years ago. There will be a challenge to access their original design or drawings.

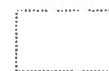
Foskor would like the consultant to perform an investigation and design a sewer reticulation system that is constructed of a suitable material of construction as well as incorporate all fittings and facilities required for successful conveyance of sewer.

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
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
SABS/SANS 1200	Civil Construction Work	Latest
S28 NEMA (1998)	Duty and care of environmental degradation	Latest
SANS 10400	The Application of National Building Regulations of South Africa	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.



C.3. Foskop 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	Yes
FD001	Design Criteria for Structures	Latest	Yes
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	Yes
FQ001	General Engineering Quality Requirements	Latest	Yes
FS 001	Specification for the Fabrication & Erection of Structural Steel Work	Latest	Yes
GM5	Pipe Standards Including Auxiliary Equipment	Latest	
GM6/COP9	Engineering Drawing and Document requirements	Latest	Yes
GQ1	Quality Control Procedure for Contractors	Latest	Yes
GS1	Structural Steelwork and Plate Work Fabrication and Erection	Latest	Yes
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	Yes
SS-000000-C-007	Concrete specification	Latest	Yes
SS-000000-C-012	Grouting	Latest	Yes
SS-000000-Q-001	General quality requirements	Latest	Yes
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	Yes
DD-000000-C-001	Civil design criteria	Latest	Yes
DD-000000-S-001	Structural design criteria	Latest	Yes



It is the responsibility of the Tenderer

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.

C.4. Project Requirements

- Engineering and Design of sewer reticulation system and necessary ancillaries
- Management of project from inception stage up to project close out (Feasibility study and construction) inclusive of all stages (1 to 6) of professional engineering services.
- Generation of detailed drawings to be issued for construction.
- Time Schedule
- Priced cost schedule
- Compilation and management of Construction Contract, Construction Costs, Quality assurance and Quality Control during construction phase.

C.5. Plant Data

All work listed in the document will be constructed at **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
R16-023-00-102	Storm water and sewer line layout plan	2
R16-023-00-103	Storm water and sewer line long sections	3
R16-023-00-401	Standard details sewer	1
DA-301-999-382-0003-01	Foskor Richard's Bay updated site (Building and services)	0
	Investigation report for Foskor plant surveying and CCTV pipeline inspection	0
	Investigation report for sub-soil conditions of the entire plant at Foskor plant	0



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 Engineering and design of this project.

The reports and drawings need to specify reference standards and regulatory acts. Final issue requires for the drawings and reports Issued for construction.

C.7 Scope of Work – General

- A site audit will be conducted based on the updated Foskor requirements to survey the existing pipe route, assess piping, ground condition and risk identification. This will be done with competent persons experienced with the Occupational Health and Safety (OHS Act), insurance, legislation, etc.
- The minimum working life of the piping design shall not be less than **50 years**.
- Irrespective of any statements to the contrary, the Design Engineer shall satisfy himself that the designs selected is capable of fulfilling the duty as specified.
- The designs shall facilitate easy access for construction, maintenance and functionality.
- The designs shall comply with the provisions of the Occupational Health and Safety (OHS Act) and other environmental, health, and safety principles and standards, as applicable.
- All detailed designs and specifications are to be signed off by professional Engineer prior to final acceptance by Foskor (Pty) Ltd Engineer.
- A report and presentation based on the site audit will be forthcoming to Foskor management indicating degradation that has taken place and propose viable solutions for piping system upgrade. The report will be reviewed and once accepted a final report can be compiled, covering the following:

Sewer piping system

- Design of sewer reticulation system upgrade report
- General piping arrangement drawings integrating Vendor documentation, with equipment, all lines with line number, manholes, etc.

Documentation

- Design report including design approach, design parameters, project risk, etc.
- All drawings supplied must be detailed enough to be issued for fabrication and construction.
- HAZOP study and report

Contract management

- Management of all quality assurance/control and cost control for construction activities from inception up to project close-out.



C.7.1 Scope of Work - Extent

The Contractor understands and shall fully satisfy the scope of required services, as described in the tender **FTP /24/MN** handed out at the site inspection held on (date) _____, which is generalized as follows:

Sewer piping system

- The Sewage pipeline is currently constructed from Asbestos cement and PVC piping. Foskor requires all plant wide sewer piping to be a suitable material of construction such as HDPE or similar approved.
- Sizing of piping to accommodate current flowrate capacity.
- All fittings to be compatible with piping materials and operating environment.
- The piping will be mainly underground piping and have manholes that flush with Natural ground level.
- Manholes to be upgraded to suitable material of construction and compatible with interconnecting pipes.

C.7.2 Site Access and Conditions

It is imperative for the successful Tenderer to liaise with the Foskor designated team leader to ensure your correct awareness of safety prior site access.

Full acid resistant PPE (personal protective equipment/clothing) + respirator in pouch, must be available at all times of accessing site.

Contractor vehicles to display flashing orange hazard/warning' light. Be cautious of Vehicle and working machinery in the area.

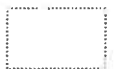
This site has hazardous chemicals such as phosphoric acid, sulphuric acid and ammonia. Be cautious of all liquid spills and never assume these to be water or a harmless liquid.

It shall be deemed that the prevailing conditions have been considered when tendering, therefore, any extras arising from failure to cognize all site conditions may not be admitted.

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

The following services exist on the site:

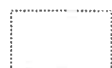
- Water and air pipes.
- Phosphoric acid and Sulfuric acid pipes and Ammonia pipelines
- Electrical cables and racking
- Steam pipelines
- Condensate pipelines
- Sewer and stormwater drainage pipelines
- Data/Instrumentation conduits/cables



1. Foskop Supplied Services

Most of the services specified herein are not required by the tenderer, as this phase is Engineering and design only and not construction.

Foskop (Pty) Ltd shall be responsible for:		Applicable
1	Supply a copy of the relevant Foskop 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. Any connection and consumption will be monitored by Tenderer and verified by Foskop on defined intervals (usually at the beginning and end of contract)	YES
5	Provide access to potable water. Connection and consumption would need to be monitored by Successful Tenderer (Contractor) and verified by Foskop on intervals (usually at the beginning and end of contract) defined by Foskop	YES
6	Provide a suitable area for site establishment for Successful Tenderer (Contractor). - Successful Tenderer to formally in writing motivate, request and define the area and services it deems necessary for site establishment. - Foskop will at its own discretion (if request is approved) allocate a site establishment area, however Foskop 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) - Successful Tenderer (Contractor)'s workers to be fully dressed in required PPE when coming on site. - The successful Tenderer to ensure that its workers/subcontractors/ suppliers that are making use of facilities, do so in an orderly and well-mannered way. - Successful Tenderer is not allowed to make use of Foskop'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 Foskop at its discretion be of the opinion that it be necessary. Cost associated with such cannot be claimed from Foskop (Pty) Ltd.	YES
8	Assist in issuing of work clearances and HIRA certificates.	YES



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2. Successful Tenderer (Contractor) Responsibilities

The successful Tenderer (Contractor) 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 installation/construction and commissioning 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 (e.g., Electrical, National Building, etc.) 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 Contractor 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.

C.7.6 Nominated Sub-Tenderers

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



The following Sub-Tenderers are nominated:

Contractor	Concerning Works	Contact

C.7.7 Invoicing and Payment

Payment will be made by Foskop (Pty) Ltd, after approval (with consideration for the construction, completion and defects corrections of the Works) by the Foskop (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 Foskop (Pty) Ltd.'s terms and conditions.

The invoice submitted is to be in a format acceptable to the Foskop (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
- 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 of time measured in hours, when the Contractor's normal operational cycle is affected by causes caused by Foskop (Pty) Ltd and results in normal stoppage or major disruption to the regular progress of the Works.

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



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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 Contractor in writing, with specific reference to this Clause, and the Contractor 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 Contractor shall, by the Due Completion Date, fail to complete the Works to the extent which entitles him to receive a Certificate of Practical Completion, the Contractor 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 up to 10% of contract amount.**

The imposing of such penalty shall not relieve the Contractor 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 be making 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 reasonable 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 the time agreed to by the Foskor (Pty) Ltd Project Representative.
- iv. In the event of failure to comply with 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 Contractor 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 Contractor shall be sequestrated (provisionally or finally), or
 - (ii) The Contractor shall publish a notice of surrender of his estate as insolvent, or
 - (iii) The Contractor, being a company or a close corporation, shall go into liquidation (provisionally or finally), or
 - (iv) The Contractor shall assign the Contract without the consent in writing of Foskor (Pty) Ltd having first been obtained, or
 - (v) The Contractor shall enter into a compromise with the general body of his creditors, or
 - (vi) The Contractor 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 Contractor/Consultant, with specific reference to this Clause, that in his opinion the Contractor/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
 - (vi) 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 Contractor, 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 Contractor 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 Contractor 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 Contractor 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 (Contractor Management).
- Compliance and signing of Section 37(2) Agreement in terms of the OHS Act at the Foskor (Pty) Ltd Safety Department.
- Submission of a SHE Plan for approval to the Safety Department prior to commencement of work on site.
- Compliance with Legislation requirements which includes the OHS Act, 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 are designed for an environmentally sensitive area, strict compliance to the Environmental Management Plan (EMP) guidelines is required.

The EMP shall be part of the terms of reference for all contractors/consultants, sub-contractors/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 with 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 (Contractor) 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 (Contractor) 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 Contractor shall ensure all his/her personnel have attended the Safety Induction, by Foskor (Pty) Ltd before they enter site.
- b. The Contractor 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 and **gas masks (Half mask 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 Contractor be found on site without the above-mentioned safety clothing, he will be removed from site and will not be allowed to return.
- c. **Overalls must be Blue Sweet Orr (80% Polyester 20% Viscose Rayon Acid repellent) or Blue North Safety Acid/Flame retardant (Flame retardant acid resistant anti-static ATPV 15.4CAL/CM2) with Company names either on front or back of jacket. Yellow fluorescent reflective strips to be stitched onto sleeves and on the knees.**
- d. The Contractor shall demarcate the relevant work area. The Contractor 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 Contractor must take safety precautions when working on site.
- g. The Contractor 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 Contractor's vehicle when entering the Plant must have rotating orange lights on at all times.
- j. **The Contractor and their employees must undergo a full medical at a recognized Occupational Health Clinic. A full lung function test must be done. Due to the nature of the job and exposure to dust, additional lung function tests must be done every two months. If the project is longer than twelve months, then a complete medical including lung function tests must be done again and thereafter the additional lung function test every two months will apply again. Medical certificates are valid for one year only.**
- k. A once-off fee is also required for access cards from Foskor Security. Please contact 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 mandatory as envisaged by Section 37 (2) of the Act.

As a mandatory the successful tenderer will be deemed to be the "principal contractor" 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 Contractor shall comply with all Foskor Regulations and Safety Standards.
- b) The Contractor shall fully comply with the OHS Act (Act 85 of 1993).



IMPORTANT NOTE

The above is a summary of some of the matters as defined in the Act. The successful Tenderer (Contractor) 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 a 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.

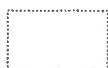
C.11. Quality Management

The successful Tenderer is to ensure that the Construction contractor adheres to Foskor (Pty) Ltd.'s Quality Management System and specifications incorporated in this Tender Document.

Additionally, the construction contractor ensure that all installations are carried out in a controlled manner, the Contractor 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 the Tenderer and Foskor before commencement of any work.

C.11.1 Quality Control for Construction:

- i. A detailed QCP (Quality Control Plan) shall be submitted within 3 days of the contract award.
- ii. Quality of work must be monitored and controlled at a high level at all times. The Construction Contractor shall show proof of this by providing and maintaining a Quality Manufacturing Data-pack (QMD). The QMD file may contain work **Method Statements, clearances, daily site diaries, material certificates, DFT (Dry Film Thickness) tests, weld certificates, Welder certifications, weld-rod batch no's and product codes, concessions granted, design drawings and "As-Built" drawings, design deviations/notes/drawings and manufacturing specifications.**
- 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 The Contractor or its representative.
- iv. At each milestone, the designated Contractor Quality Representative must approve the quality and standard of work being produced.
- v. The contractor shall be responsible for approval of Hold points and witness points interventions.
- vi. The Contractor will be held liable for managing all quality assurance and quality control.



SECTION D – BILLS OF QUANTITIES





PROJECT NAME: ENGINEERING AND DESIGN OF FOSKOR SEWER
RETICULATION UPGRADE

PROJECT NUMBER:

CONTRACT NUMBER:

PROJECT SUPERVISOR: Wandile Mhlongo

PROJECT CLIENT: SHREQ

STAGE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	STAGE 1 TO 4 (FIXED AND FIRM FEES)				
	SEWER DRAINAGE ONLY: As defined in the Scope of Work				
1	Need Appraisal and Definition of Project	Sum	1		R
2	Concept and Viability	Sum	1		R
3	Design Development	Sum	1		R
4	Documentation and Procurement	Sum	1		R
Disb	DISBURSEMENTS: Other costs associated with design Development				
				<u>Per item</u>	
	1. Printing, copying, travel, etc	Sum	1		R
	2. Survey	Sum	1		R
	3. EIA report including liaisoning with authorities	Sum	1		R
	4. Testing via Lab	Sum	1		R
	5. Specialist input : Geotech Review	Sum	1		R
	6. Other (Please define):	Sum	1		R
	7.	Sum	1		R
	8.	Sum	1		R
	STAGE 5 (TIME-BASED FEES)				
5	Contract Administration/Construction Quality and Cost Management Site visits and inspections are estimated at a level 3 construction monitoring as per ECSA guide for professional fees	Month			R
6	Close-out (FIXED AND FIRM FEES)	Sum	1		R
TOTAL :					

Tender Signature and Company Stamp:



Foskor Official





PROJECT NAME: ENGINEERING AND DESIGN OF FOSKOR SEWER RETICULATION UPGRADE

PROJECT NUMBER:

CONTRACT NUMBER:

PROJECT SUPERVISOR: Wandile Mhlongo

PROJECT CLIENT: SHREQ

STAGE 1 - 6 : TIME ALLOCATION

STAGE	DESCRIPTION	UNIT	QTY	RATE	AMOUNT
	Director / Partner	hr			
	Specialist Consultant	hr			
	Senior Consultant	hr			
	Senior Scientist	hr			
	Senior Contract Manager / Senior Project Manager	hr			
	Contract Manager / Project Manager	hr			
	Engineer	hr			
	Technologist	hr			
	GIS Specialist	hr			
	Technician	hr			
	Clerk of Works	hr			
	Administrator	hr			
	Secretariat	hr			
	Overhead factor	hr			
	Mark-up on outsourced services	hr			
	Other:	hr			
		hr			
		hr			

TOTAL : _____

Tender Signature and Company Stamp:



Foskor Official



**Section E- Technical Evaluation Criteria attached.
TENDER EVALUATION CRITERIA**

- As part of the process to assist with the evaluation of the bidder's proposal/quotation and to make an informed decision in the awarding of this tender, the following information is required.
- The following tender evaluation criteria will be used for adjudicating the Contractor's submitted tender.
- Please provide the required documentation as requested in the "Proof/documents to be submitted" column. Please be specific when submitting documents by ensuring that they answer the item specified.
- Please use the annexure number as indicated to identify the proof submitted.
- Failure to submit the relevant documentation as requested in the Evaluation criteria document may lead to a disregard of the submitted tender.



A. MANDATORY REQUIREMENTS

Bid submission not meeting the mandatory requirement will result in the bid being disqualified.



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Tender No. : FTP /24/MN

Project Title : ENGINEERING AND DESIGN OF SEWER RETICULATION UPGRADE

Date : 27 March 2024

No.	Returnable documents	Comments	
1	Submit Initial Project schedule (Bar chart/Gantt chart)	Submit documented scheduling of project	
2	Traceable Record of Similar Contracts Undertaken and References	Level of company experience	
3	Project Team Organogram indicating C.V's of individuals	Level of competency of Key Personnel	
4	ECSA Professional Engineer/Technologist Registration Certificate	Proof of competency as per Engineering Counsel of South Africa	
5	Site Inspection Certificate	Signed by Foskor Project Leader	Mandatory
6	Priced bill of Quantities	BoQ completed in Foskor format.	Mandatory

TECHNICAL REQUIREMENTS (Evaluation Criteria)

No.	Technical Criteria Description	Contribution%	Proof/Documents to be submitted	Notes
1	Time Management - Weight not to be less than 20%			
a)	Preliminary schedule for the delivery of Stages 1 to 4. Scoring: Stages 1 - 4 in < 12 weeks = 20% Stages 1 - 4 in 12 to 14 weeks = 15% Stages 1 - 4 in 14 to 16 weeks = 10% Stages 1 - 4 in 16 to 18 weeks = 5% Stages 1 - 4 in > 18weeks = 0%	20%	The contractor to supply a preliminary schedule of this project.	Preliminary schedule illustrating activities that are aligned with the Method statement.
2	Reliability - Service Provider reliability to complete the project - Weight not to be less than 20%			
a)	Suitability of project schedule in alignment with FOSKOR guide as per B.2 of tender document presented within realistic timeline. Scoring: 4 or more References = 20% 3 References = 15% 2 References = 10% 1 Reference = 5%	20%	Company track record and construction works experience - previous experience with design and construction management of civil works in sewer and/or stormwater drainage.	Give reference list of projects, with values and Purchase order. The nature of the work to be declared (Consulting Design and Construction Management).
3	Competency - Service Provider experience & team competency - Weight not to be less than 30%			
a)	Supplier level of skill - Combination of formal academic and practical training. Evaluation of key personnel responsible for Lead Engineer, Assistant Engineer, Resident Engineer, and Detailer.		Project team organogram indicating names, positions, trades of key Personnel and C. V's indicating individual's Design, Engineering and Construction Management experience post registration in civils and bulk services under Environment complying with Occupational Health and Safety (OHS Act) Works.	Give comprehensive C. V's of key project personnel with reference list of projects, with values and Purchase order. The nature of the work of the work to be declared (Consulting Design and Quality Management). Demonstrate relevant experience with sewer and/or stormwater drainage.
	Lead Civil Engineer: NQF level 0 - 6 = 0% ; Level 7 or higher = 5% Post PR. Reg. experience; < / = 10yrs = 0% and >/= 10yrs = 5%	10%		
	Assistant Engineer: NQF level 0 - 5 = 0% ; Level 6 or higher = 2,5% Bulk pipeline experience > Ø500mm ; < / = 5yrs = 0% and >/= 5yrs = 2,5%	5%		
	Resident Engineer: NQF level 0 - 5 = 0% ; Level 6 or higher = 5% Bulk pipeline experience > Ø500mm ; < / = 5yrs = 0% and >/= 5yrs = 5%	10%		
	Draughtsman: NQF level 0 - 5 = 0% ; Level 6 or higher = 2,5% Bulk gravity pipeline experience > Ø500mm ; < / = 5yrs = 0% and >/= 5yrs = 2,5%	5%		
4	Regulation/Legal Compliance - Weight not to be less than 30%			
a)	Lead Civil Engineer Scoring: Yes = 30% and No = 0%	30%	The company will provide certificated Professional(s) that are ECSA registered.	Submit certificate of Professional registration with Engineering Council of South African (ECSA).

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 **

- Mandatory documentation not submitted.**
Incomplete priced Bill of Quantities (e.g. omission of unit rate/price, Etc)

Technical Evaluation Criteria Documents

Annexure A: Executed Projects Reference list.



Annexure B: Certified ECSA Certificates



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Annexure C: Copy of Professional Indemnity



Annexure D: Project Organogram and C. V's of key personnel



Annexure E: Preliminary Schedule



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