

ANNUAL RATE CONTRACT FOR INSULATION AND LAGGING AT SULPHURIC ACID PLANT, PHOSPHORIC ACID PLANT & GRANULATION PLANT

Tender no: **FTP /22/MN**

Cost Code:

Revision¹: 0.1.01 see legend at bottom of page

Revised date: 27 July 2022

NAME	TITLE	Empl. No	SIGNATURE	DATE
------	-------	----------	-----------	------

COMPILED - RECOMMENDATION

Zola TP Mtolo	Maintenance Technician	504472		07/09/2022
---------------	------------------------	--------	---	------------

COMPREHENSION AND ACCEPTANCE

APPROVAL TO PROCEED

Siphiwe M Ntuli	Maintenance Engineer	503497		09.09.2022
Sifiso R Majola	Senior Manager Maintenance	15480		14/09/22
Sumaya Khan	Acting Senior Manager: SHREQ	503295		25/09/22
Sam Mbuyazi	General Manager, Acid Division	500441		23/09/22
Charles Reddy	Vice President, Acid Division	504307		23/09/22

INDEX

Contents

INDEX	2
Section A: INVITE AND TENDER INSTRUCTIONS	4
A.1 Invitation to tender	4
A.2 Return of Tender Documents	5
A.3 Site Inspection	6
A.4 Examination and Completion of Documents	6
A.5 Contract Documents Priority	7
A.6 Alterations by Tenderer	7
A.7 General	7
Section B: FORMS OF TENDER TO BE SUBMITTED	9
B.1 Schedule of Rates or Summary of Bill of Quantities	9
B.2 Initial Project Programmed of Works, Work Methodology and Cash Flow	10
B.2.1 Project Completion and Handover; Retention	11
B.2.2 Initial Program to be Submitted	11
B.3 Schedule of Key Personnel on the Contract	11
B.4 Schedule of Similar Contract Undertaken	12
B.5 Schedule of Labour for the Works	14
B.7 Site Inspection Certificate – To be signed by Tenderer	15
Section C: SCOPE OF WORKS	16
C.1. Background, Present Situation and Proposed Solution	16
C.1.1 Background and Present Situation	16
C.1.2 Proposed Solution: Reason for this Tender	16
C.2. Legislation, Standards and Codes of Practice	16
C.3. Foskor Specifications	17
C.4. Project Requirements	20
C.5 Plant Data	20
C.6. Drawings and/or Equipment Manuals	20
C.7 Scope of Work – General	21
C.8.1 Site Conditions	25

C.8.2	Services which are known to exist on the site.....	25
1.	Foskor Supplied Services.....	26
2.	Successful Tenderer (Contractor) Responsibilities	27
C.8.4	Certification by Recognized Bodies.....	27
C.8.5	Requirement for the termination, diversion, or maintenance of existing services	27
C.8.6	Nominated Sub-Tenderers.....	27
C.8.7	Invoicing and Payment	28
C.8.8	Standing Time	28
C.8.9	Progress of Works	28
C.8.10	Penalty	29
C.8.11	Claims: Extension of Time for Completion, Additional Payments, or Compensation	29
C.8.13	Urgent remedial work.....	30
C.9	Foskor Safety Documents to be submitted, Environmental and Site Management	31
C.9.1	SHREQ Requirements.....	31
C.9.2	Environmental Management Specifications	31
C.10	OHSA 1993 Health and Safety Specification	31
C.11.	Applicable General Conditions of Contract	33
C.12.	Quality Management	33
C.12.1	Quality Control:	34
SECTION D: EVALUATION CRITERIA		35
D.1	Technical Evaluation Criteria for this Tender which excludes Commercial Evaluation:	36

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 **Annual Rate Contract for Lagging and Cladding at Foskor Richards Bay Acid Division**

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 detailed Technical Evaluation Criteria for this Tender is found in **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	Thandiswa Ziqubu
Telephone	035 902 3098
Fax	035 797 3941
Cell no	
Email	ThandiswaZ@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.	
Contract Title:	
Annual Rate	
Contract for	
Lagging and	
Cladding Foskor	The Manager Procurement
Richards Bay	FOSKOR LIMITED
Acid Division	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.

- In case of Tenderers not being local, and not being able 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.1.2 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	Yes
Gas respirator	Yes

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.

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 Method Statement

A.4.3.2 QCP (Quality Control Plan)

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, programmed 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.
 - c) 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,

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	Preliminary & General			_____
1.01	Plant Condition Assessment			_____
1.02	Lagging and Cladding			_____
	Sub Totals Sum (Excluding VAT)			<input type="text"/>
2.0	Add: VAT	15%		_____
3.0	Total Tender Sum (Including VAT)			<input type="text"/>

- B1.1 In the event of their being any obvious errors of pricing, extensions or additions in the priced Cost Schedule 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, and unless otherwise agreed to in writing a 10% retention (held for 18 months, unless otherwise specified) shall be deducted on all payments made for the Liability Period as defined in B.2. This clause also refers to 'Handover' as specified in **B 2.1**
- 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 Programmed 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 tender close date)

Within 7 days from receipt of Purchase order.
--

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

3 Years Contract Period

TO BE SUBMITTED WITH THIS TENDER

The Tenderer shall submit with this Tender:

- 1 Method Statement
- 2 Reference Letter (Similar Contract Undertaken)
- 3 Quality Control Plan

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 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 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 Contractor, 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 programme, 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).
- 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.

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 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.

B.3 Schedule of Key Personnel on the Contract

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
Project Manager/Owner				
Site Manager				
Maintenance Supervisor				
Safety Officer				

Developer				
Developer Assistant				
Sheet Metal Fitter				
Sheet Metal Fitter Assistant				

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.4 Schedule of Similar Contract 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).

Completed Month, Year	Description	Client Name	Contact Person And Details	Value

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 us 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 and Present Situation**

Foskor Richards Bay is operating Sulphuric Acid Plant, Phosphoric Acid Plant and Granulation Plant.

At Foskor Richards Bay Plant Gas Ducting's, Steam Pipes and Static Equipment's are lagged to prevent heat from escaping, structure also painted to prevent damage on structurally support. The Lagging, Cladding at Plants is getting damaged due to aging factor and corrosive environment therefore the plants will lose steam efficiency.

So, it is necessary to replace the Lagging and Cladding on the Gas Ducting's, Steam Pipes and Static Equipment's to conserve heat and to increase the plant efficiency.

The Lagging and Cladding is required as follows:

- a) Steam lines with different sizes and various temperature range.
- b) Gas ducts with various sizes and with various temperature range
- c) Convertors and Steam Boiler shells with various temperature ranges.
- d) Sulphur Burners, Heat Exchangers, and Economizer with various temperatures.

The supplier is therefore offered with an opportunity to quote for the Lagging and Cladding.

C.1.2 Proposed Solution: Reason for this Tender

To address the above, Contractor needs to be appointed to do Lagging and Cladding at Sulphuric Acid Plant, Phosphoric Acid Plant and Granulation Plant. The main purpose for this Lagging and Cladding is to ensure that Plants run failure-free and steam efficiency is maintained.

C.2. Legislation, Standards and Codes of Practice

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

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.

Number	Title / Description	Version
Other Standards on this Tender		
OHS Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
ISO 9000	Quality Systems Series	Latest
ASME V	NDT Specifications	Latest
COP6	Control of Contractors Work	Latest
GNR 155	Asbestos Regulations	Latest

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.

ENGINEERING QUALITY/STANDARDS INDEX			
Spec. No.	Description	Revision	Applicable
FC 005	General Earth Works to Plant and Building	Latest	
FC 016	General Road Works	Latest	
FC 021	General Specification for Terrace Construction	Latest	
FD 001	Design Criteria for Structures	Latest	
FG 001	General Requirements for Projects	Latest	YES
FL 001	Ladders and walkways	Latest	
FM 001	General Mechanical Specification	Latest	YES
FM 002	Rubber lining of Vessels and Piping	Latest	
FM 003	Welding of Fabricated Equipment	Latest	
FM 273	Fire Tube Waste Heat Boiler	Latest	
FM 432	Insulation of Vessels and Piping	Latest	YES

FQ 001	General Engineering Quality Requirements	Latest	YES
FQ 002	Non-Destructive Testing	Latest	
FS 001	Fabrication and Erection of Structural Steel	Latest	
FS 002	Specification of Roof and Side Cladding	Latest	YES
FT 001	Trestles and Access Platforms	Latest	
FV 001	Requirements Vessels, Tanks and Heat Exchangers	Latest	
FY 001	Design/Fabrication of Piping	Latest	
Painting Specifications			
MC 001	Colour Coding Richards Bay	Latest	
MC 002	Scope of Corrosion Protection Richards Bay	Latest	
MC 003	Painting High Spillage Areas	Latest	
MC 004	General Plant Painting Specification Low Temperature	Latest	
MC 005	General Plant Painting Specification High Temperature	Latest	
MC 006	Repair Damaged Steel Work	Latest	
MC 007	General Steel Denso Wrap System	Latest	
MC 008	Pipe/Flange Protection Denso Wrap System	Latest	
MC 009	General Plant Protection High Corrosive Areas	Latest	YES
MC 010	Painting Tank Grillage	Latest	
MC 011	Internal Painting of Tanks with Demineralised Water	Latest	
Electrical Specifications			
E 001	Low and Medium Voltage Motors	Latest	
E 002	400V AC Distribution Switchgear & MCC's	Latest	
E 003	Industrial Electrical Installations	Latest	
E 004	Low Voltage Power and Control Cable	Latest	
E 005	Electrical Design Guidelines	Latest	
E 006	Low Voltage Distribution Boards	Latest	

E 007	A. C. Variable Speed Drive Systems	Latest	
E 008	Luminaries	Latest	
E 012	Standard Specifications for Soil Resistivity Survey	Latest	
E 014	11 kV Indoor Switchgear	Latest	
E 015	3,3 kV Indoor Switchgear and MCC's	Latest	
E 016	Distribution Transformers	Latest	
E 017	Batteries and Charges	Latest	
E 018	Static Uninterruptible A.C. Power Supplies	Latest	
E 019	Diesel Generators Sets	Latest	
E 021	Soft Start Equipment	Latest	
E 022	Review of 132kV. Harmonic Filter and Power factor Correction System	Latest	
E 023	Earth and Lighting Protection	Latest	
E 024	Lighting and Small Power	Latest	
E 025-01	Cable Ladder Rack and Accessories	Latest	
E 025-A	Cable Ladder Rack and Accessories and Installation Materials	Latest	
E 026	Medium Voltage Cables - 11k (XLPE)	Latest	
E 027	11kV/400V Construction Power Supply	Latest	
E 028	Signage for Substations	Latest	
E 029	Low Voltage and Medium Voltage Cable reticulation Installation	Latest	
E 030	Operating Requirements for Electrical Room Layout	Latest	
E 031	Electrical Part of Package Unit	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 Contractor 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 Contractor 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 Contractor 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

Lagging and Cladding at Foskor Richards Bay Acid Division as per the Annexure attached herewith r drawings and the list of Cladding and Lagging installation and repairs which will be provided by Foskor. (Including but not limited to):

- Specifications
- Labour
- Tools
- Equipment
- Consumable
- Scaffolding (Will be supplied by Foskor when required)
- Craneage (Will be supplied by Foskor when required)

C.5 Plant Data

All work listed in the document will be executed for and at FOSKOR (PTY) LTD, THE RICHARDS BAY PLANT.

C.6. Drawings and/or Equipment Manuals

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

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 Contractor must certify all documentation and drawings for correctness and conformance, specifying which standards and regulatory acts these conform to.

C.7 Scope of Work – General

The scope of work includes the following:

1. The Scope of Work (“Works”) calls for the successful completion of the (Lagging, Cladding) inside the premises of Foskor Richards Bay, and all the relevant associated works that is required to make such a facility functional for its purpose.
2. The contractor shall tender for carrying out online and offline Insulation Repairs .
3. The contractor shall make a provision for the Insulation Crew to be always available for any emergency (Standby).
4. When tendering the contractor must consider the following condition.
 - Working Temperature can vary from 150°C to 600°C.
 - Higher Elevation in the region of 30 meters above the ground.
5. Supplier must do the insulation in the various parts of the plant at Foskor Complex
 - a) Steam lines with different sizes and various temperature range.
 - b) Gas ducts with various sizes and with various temperature range
 - c) Convertor and boiler shells with various temperature ranges.
6. Removal of the damaged lagging and Cladding Insulation.
7. The supply of all materials for insulation and lagging
8. The supply of all labour, manpower, resources that may be required to fulfil the work.
9. The removal and reinstallation of insulation. The Contractor shall note that some cladding shall be reused. In the event of damage to the existing Cladding during the removal the Contractor shall be responsible for the supply / replacement of new cladding material at no extra cost.
10. Conformance certificates shall be supplied on all materials used.
11. All sheeting / cladding material specifications (the aluminum sheets), the density and thickness of lagging material shall fully comply to Foskor (Pty) Ltd Specifications: - FM 432 and - FS 002. All material to be supplied is subjected to inspection by Foskor (Pty) Ltd prior to entry to site.
12. It the contractor’s responsibility to be in possession of the Foskor (Pty) Ltd Specification FM432 and FS 002 and that the contents / requirements of the specification are clearly to be understood.

13. The Contractor shall keep record of all jobs carried out on daily basis and it is to get the work verified of the work done on daily basis by a Foskor (Pty) Ltd representative.
14. A proper daily measurement and Quality Control sheet shall be maintained. The scope covers insulation on all sizes of piping, ducting, pressure vessels, exchangers, and tanks
15. The Contractor shall provide sufficient material and manpower to carry out the job. The Contractor shall provide his labour, supervision, specialized manpower and tools to fulfil the work.
16. Payment shall be made based on actual work done and verified by Foskor (Pty) Ltd representative.
17. The Contractor is responsible to store re-useable old/used material safely for re-use. Any loss of material shall be for the contractor's account.
18. The Inspecting and testing shall fully comply to the requirements of the Occupational Health and Safety Act (OHS-Act).
19. All equipment, tools, personal protective equipment (PPE) etc. will be subjected for inspection and approved by Foskor (Pty) Ltd and shall conform to Foskor (Pty) Ltd procedures.
 - i. It the responsibility of the contractor to ensure that all the contents and requirement of the document are clear on the submission of tender.
 - ii. It is the responsibility of the contractor to supply the required documentation as listed in this document.
20. The Contractor to supply the following
 - Own Supervisor to full fill the scope of work.
 - All temporarily lighting to complete the job.
 - All equipment's, tools, PPE, and own transport.
21. Installation of new Cladding and Lagging Insulation
22. The supplier should have the facility to calculate the heat loss or gain according to our condition in the plant and must optimize the insulation thickness then and when we need to do the new insulation. But however, he can quote according to the below requirements.
23. Ensure that the turnaround time as from the time of the receipt of the official order to be no longer than 2 hours on 24 hours / 7 days / 365 days per year basis.
24. Ensure that the site access documentation is renewed on time to ensure site access always.
25. The Tenderer / Contractor shall have full personal protective equipment (PPE) namely an acid resistant overall (jacket and pants), hard hat, safety boots, safety glasses, hearing protection and a Gas mask etc. when attending the site meeting.

26. The contract will be undertaken in terms of the latest revisions and amendments of all relevant legislation, standards, and Codes of Practices. The contractor will complete the Works in accordance with all statutory obligations, municipal regulations, and all other relevant requirements. The Contractor 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.
27. Insulation with 50 mm thick mineral wool lagging with back up wire mesh and with new aluminum cladding in the UOM in M².
28. Insulation with 100 mm thick mineral wool lagging with back up wire mesh and with new aluminium cladding in the UOM in M².
29. Insulation with 150 mm thick mineral wool lagging with back up wire mesh and with new aluminium cladding in the UOM in M².
30. The Cladding over lapping and the loss due to the fabrication must be included in the above line cost itself.
31. Foam insulation on hot pipe lining with various sizes (1/2" to 8 ") must quoted in the UOM of inch diameter.
1/2 ",1", 2",3",4",6 ",8"- (Rates to be given in per inch diameter).
32. Supplier must quote the rate separately for using the old Cladding for above requirement.
33. The cladding screw should be fixed at the interval of 100 mm on the longitudinal, circumferential, and as well on the vertical joint.
34. The water repellent sealant to be applied on all joints in addition to the screws to avoid the water penetration to the lagging.
35. Cover plate of the Cladding to be done all the branch openings and that also must be screwed at 100 mm interval.
36. It must check and recorded in the Quality check for the number of cleats /area.
37. The QCP must be submitted along with the quote.
38. The quality of joint must be ensured for the jointing between old Cladding and new Cladding. As because it will be required do lot of patch insulations.

39. The insulation must be guaranteed for the minimum period of 2 years, failure of the insulation shall be redone by the contractor at free of cost and Foskor's ruling will be a binding one.
40. The density and thickness of lagging material shall comply with FM 432 and FS 002.
41. Bar Chart will be made available detailing all the equipment's needing repairs and inspection, time frame will be shown on the Bar Chart.
42. The Contractor to remove all lagging on identified equipment's.
43. The Contractor to supply adequate labour, consumables, tools, material and equipment to do removal and re lag.
44. It is the contractor's responsibility to clean the area after completion and disposing the rubble.
45. Proper day to day housekeeping to be practice.
46. Foskor to supply scaffolding and carnage provided work is carried out on site (where applicable).
47. The contractor to adhere to time frame.
48. The supply of own labor, consumables, tools, supervision, specialized equipment and manpower to fulfill the scope of work.
49. Foskor will not be held responsible for any losses to the Contractor's equipment.
50. Contractor must comply with all the requirements of this document.
51. Personal protective equipment (PPE for 98.5% Sulphuric Acid Strength) etc. will be at the Contractor's cost.
52. All work to be completed by Contractor will be inspected and approved by Foskor.
53. All work carried out shall be in accordance to set standards and specification.
54. It is the Contractor's responsibility to ensure that all work is reviewed by Foskor at all stages.
55. Clear work area and remove all scrap and steelwork daily.

Technical Data**C.8.1 Site Conditions**

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

Full acid resistant PPE (personal protective equipment/clothing) must be always used.

Be cautious of Vehicle and machine working in the area at all times.

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.8.2 Services which are known to exist on the site

The following services exist on the site:

- Water and air pipes.
- Phosphoric acid and Sulphuric acid pipes alongside the bridges
- Electrical cables and racking
- Steam
- Condensate
- Sewer line.
- Data/Instrumentation cables.

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	<p>Provide access to electricity connection points</p> <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	<p>Provide access to potable water</p> <ul style="list-style-type: none"> ▪ Connection and consumption would need to be monitored by Successful Tenderer (Contractor) and verified by Foskor on intervals (usually at the beginning and end of contract) defined by Foskor 	N/A
6	<p>Provide a suitable area for site establishment for Successful Tenderer (Contractor).</p> <ul style="list-style-type: none"> ▪ Successful Tenderer to formally in writing motivates, 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	<p>Provide access to ablutions facilities. (Not change rooms)</p> <ul style="list-style-type: none"> ▪ 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/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

2. Successful Tenderer (Contractor) Responsibilities

The successful Tenderer (Contractor) shall be responsible for (inter alia):		Applicable:
1	Ensuring 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.8.4 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.8.5 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.8.6 Nominated Sub-Tenderers

Should the tenderer anticipate using Subcontractors for any part of the scope, these must be specified below and capped at 10% markup.

The following Sub-Tenderers are nominated:

Contractor	Concerning Works	Contact

C.8.7 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.8.8 Standing Time

a) Standing time is defined as a period measured in hours, when the Contractor's normal operational cycle is affected by causes by Foskor (Pty) Ltd such as permit issuing and gas leaks and result in a normal stoppage disruption to the regular progress of the Works.

b) Standing time due to rain will not be accommodated when work is done in the plant that is under shelter.

c) Payment to the Contractor for standing time will be certified only where, in Foskor (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.

C.8.9 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.8.10 Penalty

If the Contractor, by the Due Completion Date, fails 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.**

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.8.11 Claims: Extension of Time for Completion, Additional Payments, or Compensation**C.8.11.1 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. 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.8.11.2 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.8.12 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 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
 - (v) is not executing the Works in accordance with the Contract, or
 - (vi) 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,
- (c) Foskor (Pty) Ltd may, by written notice to the Contractor, terminate the Contract and withhold any payments due until further notice.

C.8.13 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.

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.9 Foskor Safety Documents to be submitted, Environmental and Site Management**C.9.1 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.
- 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.9.2 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 contractor.

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 to Foskor (Pty) Ltd Waste Management Plan.

C.10 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.10.1. 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 always wear Foskor minimum required PPE 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 ultra vision – 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. 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% Polyester 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 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 always have rotating orange lights on.
 - j. **The Contractor 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 the 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.
 - m. Due to the length of the project, if over 12 months, it is required of the contractor to show proof of retraining staff working on heights including rope access personnel every month.

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 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 (Applicable for work with asbestos): -

- 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).
- c) The contractor shall be a registered asbestos contractor in terms of Asbestos Regulations (OHS Act). The contractor must be able to prove the following:
 - 1) Employees are conversant and trained as per regulation 5 of Asbestos Regulation (OHS Act) prior to the exposure of asbestos dust
 - 2) Is a registered asbestos contractor in terms of Asbestos Regulation and compliance with the Asbestos Regulation (OHS Act).
 - 3) Work procedure with regard to dismantling of asbestos cement sheeting as per regulation 15 of Asbestos Regulation (OHS Act).
 - 4) Work Plan with regard to demolition of asbestos cement sheeting as per regulation 21 of Asbestos Regulation (OHS Act).
- d)

IMPORTANT NOTE

The above is a summary of some of 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 valid reason if non-conformance to the Act and the Regulations are committed.

C.11. 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.12. 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 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 Foskor before commencement of any work.

C.12.1 Quality Control:

- i. A detailed QCP (Quality Control Plan) shall be submitted within 3 days of contract award.
- ii. **Quality of work must be always monitored and controlled at a high level. The 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, and material certificates.**
- 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 (Contractor) to give Foskor (Pty) Ltd timely notice of hold and witness points requiring their intervention.

C12.2 Bill of Quantity

The price should be inclusive of removal of the old insulation and lagging and do the proper house keeping and do the new lagging and cladding along with the supply of insulation and cladding materials, consumables and tools required to do the job.

Sl.No	Item Description	Price (NT)/HR	Price (OT)/HR	Price (DT)/HR
1	Developer			
2	Sheet metal fabricator			
3	Assistant			
4	Safety officer			
5	Quality assurer			
	Different Sizes	Quantity basis- UOM-Square Meter		
6	Insulation with 50 mm thick mineral wool lagging with back up wire mesh and with new aluminum cladding			
7	Insulation with 100 mm thick mineral wool lagging with back up wire mesh and with new aluminum cladding			
8	Insulation with 150 mm thick mineral wool lagging with back up wire mesh and with new aluminum cladding			

9	Foam insulation on hot pipe lining with various sizes (1/2" to 8 ") must quoted in the UOM of inch diameter. 1/2 " ,1" , 2" ,3" ,4" ,6 " ,8"- (Rates to be given in per inch diameter).	
---	--	--

SECTION D: EVALUATION CRITERIA

D.1 Technical Evaluation Criteria for this Tender which excludes Commercial Evaluation:

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
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)	Submission of Tender returnable documentation as mentioned in scope A.4.3 Scoring: If all required documents submitted=20%; if all required documents not submitted = 0%	20%	Provide mandatory documents as requested in the scope document as per section A.4.3	
2	Reliability - Supplier reliability to complete the project safely in time, quality, and budget - Weight not to be less than 60%			
a)	Suitability of methodology in alignment with safe work procedure and care of environment. Scoring: If no Method statement submitted = 0%; If method statement submitted and in alignment with safety work procedure = 20%	20%	Provide contract specific method statement demonstrating safe working procedure	
b)	Suitability of quality control plan in alignment with acceptable	20%	Provide contract specific QCP demonstrating	

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	standards and best practice for the execution of works. Scoring: If no Quality Control Plan submitted = 0 %; If Quality Control Plan submitted and in alignment with contract= 20%		control of quality to achieve desired product.	
c)	Company capacity regarding maintenance contract team and resources to fulfill the scope of work Scoring: Organogram not provided = 0%; Organogram provided =20%	20%	Provide project team organogram indicating names, positions, and trade as per B.3 format.	
3	Competence - Supplier experience & team competence - Weight not to be less than 20%			
a)	Supplier previous experience in similar work, environment, magnitude, and complexity.	20%	Provide record of previous similar experience as per B.4 format mentioned in Scope of work	

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	Scoring: Experience < 2 years=0% ;2 years ≤Experience<5 years=10% ;Exp>=5years=20%			
	Total Technical Score	100.00%		
Note: For the bid to be considered the bidder needs to score 70% and above, and comply to all mandatory requirements				