

## Definitions:

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

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

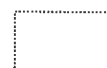
**Tenderer -** - Shall mean a business company, organization or person who undertakes to conduct such work as described in the Scope of Work section of this document and as submitted by means of return Tender.

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

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



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## 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 **Dryer drum girth gear manufacturing and supply.**

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

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

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

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

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

Designation	Category Buyer
For the attention of	Mphumeleli Ngqulunga
Telephone	035 902 3115
Fax	035 797 3941
Cell no	
Email	phumen@foskor.co.za

### A.2 Return of Tender Documents

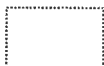
A.2.1 One copy of this document, duly completed and signed by the Tenderer, shall be delivered in a plain sealed envelope, distinctly marked as follows:

<b>TENDER</b>		
Tender No.	<b>FTP /24/MN</b>	<b>The Manager Procurement</b>
Contract Title:	<b>Manufacture and supply dryer drum girth gear and pinion</b>	<b>FOSKOR LIMITED</b>
Closing date & time:		<b>21 John Ross Parkway</b>
		<b>Richards Bay</b>

A.2.2 Tenders shall be placed in the **Tender Box at Foskor Richards Bay Main Administration Reception** no later than **12H00** 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 in a position to hand deliver tender documents to the above-mentioned location, Tenderers may use an approved document courier for the purpose of delivering the tender document to Foskor (Pty) Ltd. This would be subject to auditable proof of dispatch from the Courier Company (including time and date of dispatch).



- Such proof shall be faxed and confirmed as addressed to **Divisional Lead Procurement FOSKOR (PTY) LTD**, 21 John Ross Parkway, Richards Bay, facsimile number as indicated under item A.1.3 before the closing time and date of the tender.
- Foskop 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 **Divisional Lead Procurement** .

### A.3 Site Inspection

No compulsory site inspection shall be held for tendering purposes. Tenderer upon request may visit the **Foskop, Richards Bay** site for the Tenderer to familiarize himself on the extent of the scope of work.

Date of Site Visit

N/A

Time of Site Visit

From:

To:

Meeting Venue

**Report at Main Security Entrance**

Please wear the following protective clothing:

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

Yes

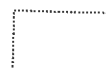
Yes

Yes

Yes

Yes

Yes



**IMPORTANT**

- Please note that a Safety Induction is MANDATORY for all first time Tenderers who wish to access Foskor (PTY) Ltd site.

**A.4 Examination and Completion of Documents**

- A.4.1 The Tenderer shall examine all documents forming part of the Tender and submit his tender accordingly. All drawings, addendums, annexures received with the Tender documents must be returned with your company stamp and/or signature, as a comprehensive part of your Tender Submission. Failure to do so may result in disqualification from tender. Tender in accordance with this format and submit documents as specified below.
- A.4.2 The Sections of this document shall not be separated in any way, nor shall any pages be detached therefrom.
- A.4.3 The Tenderers submission is to include all Financial and Contractual detail and be signed (by authorized person) and/or company-stamped together with tender submission.
- A.4.3.1 Schedule of rates of Costs in detailed Breakdown or Labour Rates for the Works or Breakdown per Bill of Quantities
  - A.4.3.2 Initial Project Program of Works, Quality Control Plan, Work Methodology, and Cash Flow (structured similarly to payment terms)
  - A.4.3.3 Schedule of Key Personnel on the Project
  - A.4.3.4 Schedule of Similar Contracts Undertaken
  - A.4.3.5 Tenderer company profile

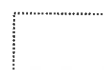
**A.5 Contract Documents Priority**

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

**A.6 Alterations by Tenderer**

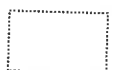
- A.6.1 Should the Tenderer propose any departures or modifications from the Conditions of Contract, Specifications, or to qualify his tender in any way, he/she shall set out his/her proposals clearly in the covering letter attached to this Tender with reference to the particular section of the document, failing which the tender will be deemed to be unqualified. Any proposed technical departures from Foskor (Pty) Ltd's Requirements or Specifications shall only be considered if submitted in writing together with a detailed motivation for such departures.
- A.6.2 The Tenderer shall include in respect of each proposed alteration the following:
- a) Reason for proposed exception.
  - b) Suggested re-wording.
  - c) Any effect on the tender price.
  - c) Any effect on the execution of the scope of supply.
  - d) Any effect on Foskor's overall program objectives.

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



**A.7 General**

- A.7.1 Foskor (Pty) Ltd reserves the right to adjust arithmetical or obvious errors in the Tender. Such adjustments made by Foskor (Pty) Ltd will be communicated to the Tenderer prior to the acceptance of his Tender.
- A.7.2 The Tenderer (whether his Tender is accepted or not) shall treat the details of the Tender as private and confidential and no copies shall be made thereof without the permission of Foskor (Pty) Ltd.
- A.7.3 Foskor (Pty) Ltd is not bound to accept the lowest or any other Tender it may receive, nor to assign a reason for the rejection or acceptance of any Tender, and Foskor (Pty) Ltd has the right, after Tenders are opened, and before a Contract is awarded, to enter into negotiations and discussions with one or more Tenderers short-listed on a price, program or technical basis, with a view to the clarification, improvement or amendment of any particular Tender.
- A.7.4 All Tenderers tender at their own risk and Foskor (Pty) Ltd is not bound to accept any Tender and under no circumstances whatsoever will be responsible for any costs incurred by any Tenderer in compiling or submitting the tender.
- A.7.5 Furthermore, Foskor reserves the right to accept only a part of the Tender, with due communication and agreement of the Tenderer.
- A.7.6 The Tenderer is required to submit a 'bona fide' Tender, intended to be competitive and not to fix or adjust the amount of the Tender by or under or in accordance with any agreement or arrangement with any third party. The Tenderer is also obliged to ensure that it has not and will not at any time before the hour and date for the lodging of this Tender do any of the following acts:
- Communicate to any person<sup>1</sup> 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.
  - Enter into any agreement or arrangement with any third party that shall disqualify from or that Foskor shall refrain from using.
  - 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 2<sup>nd</sup> 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	<b>SUB TOTALS:</b>				
1.00	P&G				A1
1.01	Manufacturing				A2
1.02	Supply				A3
	<b>Sub Totals Sum (Excluding VAT)</b>				A4
2.0	<b>Add: VAT</b>	15%			D
3.0	<b>Total Tender Sum (Including VAT)</b>				A5

**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, and unless otherwise agreed to in writing a **10% Retention** (*held for 12 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**

WE AGREE TO A 10% RETENTION and 12 MONTHS DEFECTS-LIABILITY RETENTION PERIOD.

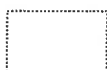
**B1.5** Unless or until a formal agreement is prepared and signed, this tender, shall serve as your written acceptance and constitute a binding contract between Foskor and Yourself.

Amount In Words:

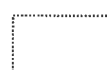
Signed at .....on.....

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

.....  
Company Stamp



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## B.2 Initial Project Program 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: 6 wks. from tender close date)

Upon order date

**Snagging/Modification List Date**

After Inspection

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

4 Months

**Defects Liability Period Applicable** (Start from Project handover)

After Project Handover

**Retention Payment:**

12 months from Project Completion & Handover (Refer B1.4)

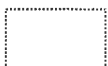
### TO BE SUBMITTED WITH THIS TENDER

The Tenderer shall submit with this Tender:

- 1 Initial programme (Bar Chart/Gantt Chart)
- 2 Milestones; and
- 3 Indicative Cash Flow / Invoicing
- 4 Record of experience, Purchase order and completion certificate
- 5 Company profile
- 6 Work methodology
- 7 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.



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- 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 Foskop.

## B.2.1 Project Completion and Handover; Retention

Unless otherwise agreed, Project Completion (handover), shall be deemed to be from date of Foskop 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 Foskop 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 Foskop a Project Complete/Handover Certificate, which receipt shall define and signify the commencement of Retention Period (if applicable).

## B.2.2 Initial Program to be Submitted

The interim and final project completion dates, as indicated in the above table should be used as 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 program compile related Milestone Dates. Thus, the items/actions/ activities to be met that are critical towards the completion of the project.

WBS ref	MILESTONES	To be Completed on





## B.3 Schedule of Key Personnel on the Project

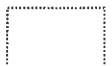
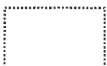
The Tenderer shall:

1. Complete schedule below concerning the Key Personnel on the project, indicating also if the person is employed by the Tenderer, a sub-contractor or temporarily 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/ Contracts Manager				
Quality Assurance and Control				
Document Control and Accounts				
Safety Officer				

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

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



#### 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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## B.5 Schedule of Labour Rates for the Works

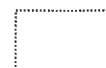
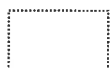
The rates for labour indicated below shall be the Total Cost to the Company (Contractor). It shall include for all the Contractor's profits, overheads, wages, accommodation, travelling, subsistence and other costs relative to the employment by the Contractor of the personnel detailed, and for hand and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

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

The rates detailed herein shall not be subject to escalation.

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

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



## B.6 Schedule of Equipment for the Works

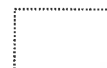
The Contractor must list below all the items of major equipment, which he guarantees will be provided on site in perfect working order to complete the work. The lists of items of equipment shall provide the Contractor's warranty of ownership of such equipment unless specifically endorsed in this Annexure to the contrary as "hired" or "hire purchase equipment."

The rates for Equipment detailed below shall include all overheads, profits, and maintenance and running costs including the provision of drivers/operators where necessary.

The rates detailed herein shall not be subject to escalation. No payment in respect of standing time shall be paid for items of equipment not listed below.

This Schedule must be accurately completed. Phrases such as "adequate equipment will be provided" will not be accepted. The application and use of these rates shall be at our sole discretion and subject to the prior approval of the Engineer.

Item	Description	Rate/hr.	Rate/Day	Standing Time/Hour



## 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,

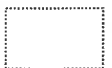
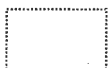
Yours faithfully

SIGNATURE: \_\_\_\_\_

ON BEHALF OF: \_\_\_\_\_

DATE: \_\_\_\_\_

AS WITNESS: \_\_\_\_\_



## Section C: SCOPE OF WORKS

### C.1. Background, Present Situation and Proposed Solution

The granulation plant has a rotary drum for drying fertilizer material from the granulator. The Dryer drum is  $\pm 3.66\text{m}$  diameter &  $\pm 27.43\text{m}$  long with ASTM A-285 Gr.C material of construction. The drum has a 176-tooth girth gear flange mounted with 21 off M38x200mm 8.8HT bolts on the shell. The girth gear material of construction is ASTM A-148 Gr. 90-60 Cast steel. The drive unit consists of a 4-pole, 250 KW motor with 1450 RPM, driving a 50:1 gearbox. The gearbox output is coupled to a 24-tooth pinion which is matching with the girth gear.

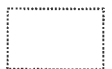
The dryer girth gear experienced several cracks in the past and has undergone multiple repairs with a downtime of about two weeks per repair. The downtime results in huge production loss.

It is proposed that spare girth gear and pinion are manufactured, supplied to ensure it is readily available in case of a breakdown.

### C.2. Legislation, Standards and Codes of Practice

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

Number	Title / Description	Revision
COP6	Control Of Construction Work	Latest
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
S28 NEMA (1998)	Duty and care of environmental degradation	Latest
AWS D1.1	Structural Steelwork	Latest
ASMW V	NDT Procedures	Latest
ASME IX	Welder and weld procedure qualifications	Latest
ISO 9001	Quality Management System	Latest
AGMA	American Gear Manufacturing Association	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. Foskor Specifications

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

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

Number	Title / Description	Version	Applicable
OTHER	STANDARDS on this Tender		
APPLICABLE	FOSKOR SPECIFICATION on this Tender		
E003	Industrial Electrical Installations	Latest	
EC1	Installation, Testing and Commissioning of Electrical Equipment	Latest	
FC005	General Earth Works to Plant and Building	Latest	
FD001	Design Criteria for Structures	Latest	
FG001	General Requirements for Projects	Latest	Yes
FL001	Design & Fabrication Criteria for Ladders & Walkways	Latest	
FM001	General Mechanical Specification	Latest	Yes
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	Yes
MC004	General Plant Painting Specification Low Temperature	Latest	
MC006	Repair/Touch-up of Damaged Steelwork	Latest	
MC009	General Plant Protection High Corrosive Areas	Latest	
SS-000000-C-006	General specification for concrete construction	Latest	
SS-000000-C-007	Concrete specification	Latest	
SS-000000-C-012	Grouting	Latest	

SS-000000-Q-001	General quality requirements	Latest	Yes
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	
DD-000000-C-001	Civil design criteria	Latest	
DD-000000-S-001	Structural design criteria	Latest	

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

The 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

The Tenderer is to Manufacture and supply the dryer drum girth gear and pinion. The requirements are listed below but the Tenderer will not be limited to the list supplied herein.

- Manufacture and supply dryer drum girth gear and pinion.
- Supply own material.
- Labour.
- Tools.
- Consumables
- Transport
- Time schedule
- Cost Schedule

The Contractor will be responsible for management of Manufacturing Quality Assurance and quality control as per ISO 3834 as a minimum. Data Pack to be fully inclusive of signed quality inspection checklists and certificates required. (refer C.12.1) The Contractor shall ensure conformance with technical specifications and drawings.

All detailed designs and specifications are to be approved prior to final acceptance by Foskor (Pty) Ltd Engineer.

All documents shall be in English.

Hard copy Manuals and data books shall be on arch lever file and electronic copies on a memory stick.

In areas where the contractor will be construction detail drawings for Engineer comments/approval, the drawings shall be in AutoCAD format.





## C.5. Plant Data

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

## C.6. Drawings and/or Equipment Manuals

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

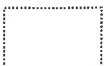
Drawing No.	Title / Description	Revision
272-1203	DRYER & PROCESS COOLER GEAR & PINION DETAIL	LATEST
272-1201	DRYER SHELL DETAILS	LATEST
DA-212-501-312-0002-02	DRYER PINION SHAFT	LATEST

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 with.



Foskor Official



## C.7 Scope of Work - General

The scope of work includes for the following:

The Contractor scope of supply is as per the complete Bill of Quantities as submitted, which includes but not limited to: Manufacturing and Supplying etc. Supply of any equipment or material which the contractor deems necessary (which was not in the BOQ) needs to be approved by Foskor Engineer.

All specialized equipment/material shall be installed as per the manufacturer's manual. Any deviations from Manufacturer recommendations must be suitably justified.

All completed work will be inspected and approved by Foskor and/or Foskor appointed inspector. Any Activity/document that has hold point interval and requires Foskor's and/or inspector's approval; must be approved by Foskor and/or inspector before proceeding to the next stage.

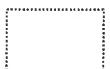
After completion of manufacturing, the Contractor must allow for final inspection, passing & handover of the project works with Foskor (Pty) Limited and the nominated Contractor.

The project to 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 and all other relevant requirements.

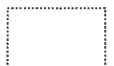
The Contractor will conform with the requirements of the Occupation Health and Safety Act, Act 85 of 1993 and latest amendments in terms while executing this project.

Girth gear specifications		
1.	Pressure angle	20°
2.	Face width	12"
3.	No. of teeth	176
4.	Diametral pitch	1"
5.	Equivalent C P	3.142"
6.	Pitch diameter	176.0"
7.	Outside diameter	178.0"
8.	Addendum	1"
9.	Dedendum	1.157"
10.	Whole depth of tooth	2.157"
11.	Tooth thickness at pitch line	1.57"



12.	Clearance	0.157"
13.	Hardness	Brinell hardness 250
14.	Girth gear material	ASTM A-148 Gr. 90-60 cast steel or equiv.

Pinion gear specifications		
1.	Pressure angle	20°
2.	Face width	13"
3.	No. of teeth	24
4.	Diametral pitch	1"
5.	Equivalent C P	3.142"
6.	Pitch diameter	24"
7.	Outside diameter	26"
8.	Addendum	1"
9.	Dedendum	1.157"
10.	Whole depth of tooth	2.157"
11.	Tooth thickness at pitch line	1.57"
12.	Clearance	0.157"
13.	Hardness	Brinell hardness 350
14.	Pinion gear material	4340 cast steel or equiv.
15.	Pinion shaft material	EN 24 (not 1431 Gr.300 W as per dwg.)



**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:

Upon receiving purchase order, contractor shall verify the dryer drum girth gear and pinion as built dimensions on site. Final dimensions shall be communicated to Foskor (PTY) Ltd mechanical engineer.

Contractor shall procure suitable materials to fulfil the scope of work and all materials will be subject to verification by Foskor (PTY) Ltd appointed inspector.

**C.7.1.1 Manufacturing**

- a) Manufacture one off flange mounted with T-section structural design girth gear.
- b) Girth gear must be manufactured in two segments.
- c) Girth gear split at the joints must be in the tooth root and the two segments are to be of equal lengths.
- d) Joint designs are thru-bolt connections with threaded fasteners consisting of studs with nuts on both ends.
- e) Double processing method or any other approved method shall be followed to overcome chordal length growth.
- f) Ensure adequate support, compatible joint angles, and happy pre-stressed conditions in preparation for turning. Ensure correct geometric tolerances are applied to the datum surfaces on the gear blank upon mounting on the gear cutting machine.
- g) Apply a casting process that removes impurities from the final cast and accurately controls chemical compositions.
- h) Ensure uniform hardness throughout the component.
- i) An "open joint inspection" shall be performed in the presence of a Foskor (PTY) Ltd representative upon completion of the girth gear.
- j) Method on manufacture and acceptance criteria as per AGMA 6114 guidelines.
- k) Manufacture one of pinion gear as per specifications.
- l) Pinion gear grinding is to be conducted to a minimum accuracy of AGMA 2000 Q8 class or higher.
- m) Machine pinion shaft and key.
- n) Assemble pinion onto pinion shaft.
- o) NDT shall conform to; - Ultrasonic Examination ASTM A609 and Magnetic Particle Inspection ASTM E1444.
- p) Heat treatment shall be performed where necessary to ensure desired end results on manufactured parts.
- q) Monitoring at milestone points shall be done throughout the manufacturing process.
- r) Supply a Technical Data Pack comprising of all relevant certifications. i.e. Inspection & test plans, material certificates, chemical & mechanical analysis, heat treatment graphs & logs, microstructure analysis & cleanliness, NDT reports, dimensional report, run out inspections, hardness test certificates, surface finish tests etc.

**C.7.1.2 Supply**Preservation

- a) Tectyl RP300 or equivalent shall be applied to all manufactured parts for corrosion protection.
- b) Material Safety Data Sheet of corrosion protection chemicals shall be supplied together with the parts to be delivered.

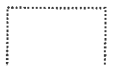


**Packaging**

- a) The contractor shall ensure that the manufactured parts are packed in a manner that will allow the parts to be removed from the packaging without damaging the parts in the process. All parts shall be strongly packed for shipment in accordance with the best commercial practice. Palletized cases/pallets for forklift loading and unloading must be used.
- b) Packing must be in cases of solid timber and the base of all cases must be constructed for lifting by fork-lift truck unless otherwise approved by Foskor (PTY) Ltd. The timber should be joined by using the appropriate screws. Where metal or prepared paintwork may come into contact with the case timbers, it must be protected from abrasion by felt pads, foam rubber, plastic, or cardboard. A waterproof envelope must be attached to the pallet with a copy of the packing list enclosed.
- c) Packing slip should be in 2 sets:
  - 1. 1 set placed inside of each package.
  - 2. 1 set affixed to the outside of the package.
- d) Packing slip should contain minimum:
  - 1. Description of enclosed part/s.
  - 2. Quantity, total number of parts inside the enclosed package.
  - 3. Vendor name or Manufacturer name
  - 4. Purchase order number
  - 5. Country of origin
  - 6. Gross weight
- e) Packages must be conspicuously marked with "Fragile", "Handle with Care", "Right Side Up", "Keep Dry", etc., in English and with the appropriate international standard symbols, to prevent possible damage. On each package for special handling requirements, the ISO symbols, as appropriate must be used. All symbols must be shown right way up, and on two opposing sides of each crate or package.
- f) The supplier must (if appropriate) ensure that the centre of gravity and hoisting position/certified lifting points are obvious/clearly marked on two sides of each case to facilitate loading, unloading, and handling. Handling procedure and lifting diagram must be provided for large/heavy units.

**Delivery**

- a) Contractor to inform Foskor (PTY) Ltd responsible person prior to delivery for necessary unloading arrangements.
- b) The contractor driver is required to have all the necessary personal protective equipment as mentioned in section C9.1.
- c) The contractor driver will be required to attend a compulsory induction upon arrival at Foskor (PTY) Ltd.
- d) Contractor vehicle to have at least one company sticker on either side of the vehicle's front doors and an amber light in working condition.



## C.7.2 Site Conditions

The site is located on the Foskor (Pty) Ltd Richards Bay Plant, approximately 150 meters from the main entrance, at the section of the plant known as the Granulation Plant. The Tenderer is deemed to have viewed the site and to have thoroughly acquainted himself with the extent, nature and conditions affecting the work to be done before submitting his tender. Be cautious of personnel, machines and overhead crane always working in the area.

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

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

The following services exist on the site:

- Water and air pipes.
- Electrical cables and racking.

### 1. Foskor Supplied Services

Foskor (Pty) Ltd shall be responsible for:		Applicable:
1	Supply a copy of the relevant Foskor Procedure Specification(s).	refer C.3
2	Supply a copy of reference drawings if required.	refer C.6
4	Provide access to electricity connection points. <ul style="list-style-type: none"> <li>▪ Any connection and consumption will be monitored by Tenderer and verified by Foskor on defined intervals (usually at the beginning and end of contract)</li> </ul>	YES
5	Provide access to potable water. <ul style="list-style-type: none"> <li>▪ 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</li> </ul>	YES
6	Provide a suitable area for site establishment for Successful Tenderer (Contractor). <ul style="list-style-type: none"> <li>▪ Successful Tenderer to formally in writing motivate, request and define the area and services it deems necessary for site establishment.</li> <li>▪ 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</li> </ul>	ON REQUEST
7	Provide access to ablutions facilities. (not change rooms) <ul style="list-style-type: none"> <li>▪ Successful Tenderer (Contractor)'s workers to be fully dressed in required PPE when coming on site.</li> <li>▪ 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.</li> <li>▪ Successful Tenderer is not allowed to make use of Foskor's change room or tearoom facilities unless agreed to in writing.</li> <li>▪ 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.</li> </ul>	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	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 Foskop (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 Foskop 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 Foskop (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 Foskop (Pty) Ltd, will be subjected to review and approval by Foskop (Pty) Ltd and shall conform to Foskop procedures.

### C.7.4 Certification by Recognized Bodies

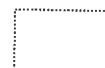
Only Tenderers registered with the relevant Board (e.g., Electrical, National Building, etc.) of South Africa in accordance with the Regulations of the Occupational Health and Safety Act will be accepted and permitted to do work under this contract.

### 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 Foskop's attention any previously unspecified or obstructing services existing in his area of work and without terminating/diverting/hindering such services.



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## C.7.6 Nominated Sub-Tenderers

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

The following Sub-Tenderers are nominated:

Contractor	Concerning Works	Contact

## C.7.7 Invoicing and Payment

Payment will be made by 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.

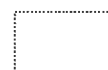
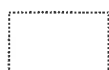
## C.7.8 Standing Time

Standing time is defined as a period 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.

## C.7.9 Progress of Works

Should Foskop (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, Foskop (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.**

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.

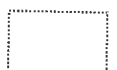
**C.7.11.2 Extension of Time for Completion**

The whole work 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.



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**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 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,

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.

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**

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 OHSA 1993 Health and Safety Specification**

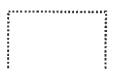
This specification covers the health and safety requirements to be met by the successful Tenderer (Contractor) to ensure a continued safe and healthy environment for all workers, employees and subcontractors/consultants and for all other persons entering the site of works.

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 the 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.
  - 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 six months.**

## 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.

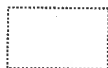
**C.11. Quality Management**

The successful Tenderer is to 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 the contract award.
- ii. The quality of work must always be 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, material certificates, DFT (Dry Film Thickness) tests, AIA (Approved Inspection Authority) certifications, weld certificates, Welder certifications, weld-rod batch nos 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 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.
- vi. If Foskor did not approve the quality of work being produced, the Contractor will have to redo work to a standard that is acceptable to Foskor (Pty) Limited. This will be for the Contractor's account. Foskor (Pty) Ltd will not entertain any claims arising from this.



Foskor Official



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**Section D – DRAWINGS (All drawings attached as listed in this document)****Section E****- BOQ attached****- Technical Evaluation Criteria attached**

Item	Description	Unit	Qty
	These Provisional Bill of quantities have been measured in accordance with the latest Edition of the Standard System of Measuring Builder's Work. Where discrepancies arise the relevant party must be informed immediately.		
	Note: Unless the scope of work changes no extras will be entertained		
	This document is to be filled in completely and all supporting documentation requested is to be submitted. Failure to adhere to these instructions by the Tenderer may result in a disqualification.		
	NB: The items in the Bill are not in sequential order and by no means includes all events on the scope of works, but is rather items based. It is the responsibility of the contractor to prioritize the events in sequential order on his program and to ensure that all scope of work requirements is accounted for on this bill before submitting the tender.		
	<b>Bill No. 1</b>		
	<b>PRELIMINARY AND GENERAL :</b>		
1	Safety induction	Hr	1
2	Medical Examination	Ea	
3	Safety equipment and PPE	Ea	
4	Transport	Km	
5	NDT Services inclusive of MPI, radiography, etc as required (Contractor to submit detail breakdown of cost with tender)	Hr	
6	Other fixed charge obligations To be stated by Tenderer .....		
	Total Bill No. 1 excluding VAT carried forward to Summary Page		

<b>BILL No.2 - MANUFACTURING:</b>									
<b>GIRTH GEAR</b>									
<b>Design</b>									
1	Site measurements verification	Hr							
2	Designs	Day							
3	GA Drawings	Day							
4	Shop Detail Drawings	Day							
5	Specialised Engineering And Design Calculations	Day							
<b>Manufacturing</b>									
6	Material	Tons							
7	Manufacturing process	Tons							
8	Heat treatment	Hr							
9	Quality assurance	Hr							
<b>PINION GEAR AND SHAFT</b>									
<b>Design</b>									
10	Site measurements verification	Hr							
11	Designs	Day							
12	GA Drawings	Day							
13	Shop Detail Drawings	Day							
14	Specialised Engineering And Design Calculations	Day							
<b>Manufacturing</b>									
15	Material	Tons							
16	Manufacturing process	Tons							
17	Heat treatment	Hr							
18	Quality assurance	Hr							
19	Assembling	Hr							
<b>Total Bill No. 2 excluding VAT carried forward to Summary Page</b>									
<b>BILL No.3 - SUPPLY:</b>									
1	Preservation	m <sup>2</sup>							
2	Packaging	Tons							
3	Delivery	km							
<b>Total Bill No. 3 excluding VAT carried forward to Summary Page</b>									



Bill No. 1 - Preliminary and General					
Bill No. 2 - Manufacturing					
Bill No. 3 - Supply					
Sub total					
Total excluding VAT carried to form of tender					



# TEV SCORING CRITERIA FOR MANUFACTURING AND SUPPLYING DRYER DRUM GIRTH GEAR

**Mandatory Requirements: Bid submission not meeting these requirements will result in bid being disqualified.**

- 1 Submission of experience record with references, project values and contact numbers for verification
- 2 Submission of initial high level programme (Bar Chart/Gantt Chart)
- 3 Submission of Quality Management System documents

**Note: 70% will be required to be considered for this tender**

**Technical Evaluation Criteria for this Tender which excludes Commercial Evaluation:**

No	Technical Criteria Description	% Contribution	Proof / documents to be submitted
1	<b>Experience - Section Weight not to be less than 20%</b>		
a)	Suitability in alignment with Supplier previous experience in similar work, environment, magnitude, and complexity  <b>Scoring:</b> Similar Experience < 2 years = 0% Experience 2-4 years = 10% Similar Experience > =5 years = 20%  Similar	20%	Give reference list of projects, years of experience with values and Purchase order and completion certificate. Provide a reference letter highlighting the above mentioned.
2	<b>Compliance with Scope of Work Specifications - Weight not to be less than 20% Section weight be not less than 40%</b>		
a)	Assessed on completeness of Tender returned, with relevant & applicable documentation; company (profile), suitability of personnel; and facility/premises; submitted for thorough technical evaluation.  <b>Scoring:</b> INCOMPLETE Tender returnable documents submitted = 0%; All & Complete documents submitted = 20%	20%	Provide mandatory documents as requested in the scope document, A complete Tender returned with relevant documentation; suitability or relevance of company (profile), the personnel; and it's facility; submitted for thorough technical evaluation.
b)	Provide a detailed Tender/Bid, with cashflow & delivery times, conditions.  <b>Scoring:</b> Not submitted Or no clear proposal/information = 0%; If proposal/information submitted provides clear understanding =20%	20%	Submission of tender in alignment with project costs, program. Tender/Bid to be suitably detailed , with cashflow & delivery times and/or milestones for a complete manufacturing and supply to meet the scope and timeline. Clearly specifying inclusions/ exclusions.
3	<b>Supplier reliability/capability to complete the project safely, in time, in quality and budget - Weight not to be less than 40%</b>		
a)	Quality management system  <b>Scoring:</b> No documentation = 0 %, Documentation aligned with the key dates = 20%	20%	The Tenderer shall indicate how it shall perform quality checks throughout the project. Supply a proof of American Gear Manufacturers Association certification and ISO9001 certification.
b)	Project Execution Plan  <b>Scoring:</b> No documentation = 0 %, Documentation aligned with the key dates = 20%	20%	Demonstrate how tenderer intend on executing the SOW. 1) Provide typical methodology document detailing how the project. 2) The tenderer needs to also provide technical/product data sheets for material to be supplied in-line with the SOW
	<b>Total Technical Score</b>	100%	

