

**SCOPE OF WORK FOR SUPPLY OF 90TON ROUGH MOBILE
TERRAIN CRANE TO FOSKOR RBY.**

Tender no: **FTP** / /

Cost Code:

Revision :1

Revised date: 04 NOVEMBER 2024

NAME	TITLE	EMPL. No	SIGNATURE	DATE
COMPILED - RECOMMENDATION				
[REDACTED]		19043		25/03/25
COMPREHENSION AND ACCEPTANCE				
[REDACTED]		504804		25/03/2025
APPROVAL TO PROCEED				
[REDACTED]		15480		03/04/2025
[REDACTED]		504688		23/04/2025
[REDACTED]		500441		24/04/2025

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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 **SUPPLY 90TON ROUGH MOBILE TERRAIN CRANE TO FOSKOR RBY.**

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.**

Technical Evaluation Criteria **Section D**

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

Designation	
For the attention of	
Telephone	
Fax	
Cell no	
Email	

A.2 Return of Tender Documents

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

TENDER		
Tender No.	FTP / /	The Manager Procurement FOSKOR LIMITED 21 John Ross Parkway Richards Bay
Contract Title:	THE SUPPLY OF NEW 90TON ROUGH MOBILE TERRAIN CRANE	
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 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 Procurement Manager: 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 **Procurement Manager: Tenders and Contracts**.

A.3 Site Inspection

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

Date of Site Visit

Time of Site Visit

Meeting Venue

From:	To:
Report at Main Security Entrance	

Please wear the following protective clothing:

Overalls (Acid Proof),	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.
- The Site Visit / Inspection is **NOT COMPULSORY**.

A.4 Examination and Completion of Documents

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

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

- A.4.2 The Sections of this document shall not be separated in any way, nor shall any pages be detached therefrom.
- A.4.3 The Tenderers submission is to include all Financial and Contractual detail and be signed (by authorized person) and/or company-stamped together with tender submission.
- A.4.3.1 Schedule of rates of Costs in detailed Breakdown or Labour Rates for the Works or Breakdown per Bill of Quantities
- A.4.3.2 Initial Project Program of Works, Work Methodology, and Cash Flow (structured similarly to payment terms)
- A.4.3.3 Schedule of Key Personnel on the Project
- A.4.3.4 Schedule of Similar Contracts Undertaken
- A.4.3.5 Site Inspection Certificate – signed by Tenderer as proof of attendance

A.5 Contract Documents Priority

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

A.6 Alterations by Tenderer

- A.6.1 Should the Tenderer propose any departures or modifications from the Conditions of Supply, Specifications, or to qualify their 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 (P&G).				A1
1.01	Cost of new 90 Ton Mobile Crane (Latest Model)				A2
	Sub Totals Sum (Excluding VAT)				A3
2.0	Add: VAT	15%			D
3.0	Total Tender Sum (Including VAT)				A4
B1.1	In the event of their being any obvious errors of pricing, extensions or additions in the priced 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 180 (One Hundred and Eighty) 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 Foskop 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 Foskop and Yourself.				

Amount In Words:

Signed aton.....

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

.....
Company Stamp

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

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

Commencement Date (Guide: immediately. from tender close date)

Within 7 days from receipt of Purchase order.

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

12 weeks

TO BE SUBMITTED WITH THIS TENDER

The Tenderer shall submit with this Tender:

- 1 Initial programme (Bar Chart / Gantt Chart)
- 2 Milestones
- 3 Methodology

OTHER IMPORTANT NOTES

- **'Defects Liability Period'** shall be that period in force for Foskop to call upon the Supplier/Consultant to rectify at no cost to Foskop (Pty) Ltd any defects of workmanship, quality or practice; and shall remain in force **in parallel with the Retention Period** and any other duration agreed to.
- The Tenderer is to list and motivate any deviations in terms of Project Program and/or time allowed, and this is subject to approval by the Foskop (Pty) Ltd Engineer.
- It would be expected, in the event of critical work and/or work behind programme/schedule, should such be attributable to the Supplier, to make up the time and work and complete the work at no cost to Foskop (Pty) Ltd.
- The Tenderer shall within **7 (seven)** days of contract award submit a final detailed work methodology and programme, and the final work methodology shall be verified and approved by Foskop (Pty) Ltd.
- The Tenderer is welcome to propose alternatives work methodology or approach to work, that may be of mutual benefit. This would be submitted in the form of an Alternative (clearly marked), however the Tenderer is **still to submit a tender in the form specified** in this tender.
- The Tenderer shall submit a Work Breakdown Structure (WBS) and compile a programme (use MS Projects).
- 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 Foskor issuing a Project Complete/Handover Certificate to the Supplier. 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.

ATTACH GANT CHART AND/OR BAR CHART TO THIS PAGE

B.3 Schedule of Key Personnel on the Contract

The Tenderer shall:

1. Complete below concerning the Key Personnel on the project, indicating also if the person is employed by the Tenderer, a sub-supplier 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-Supplier or Temp?	Years Related Experience
Project Manager / Owner				
Site Manager/ Contracts Manager				
Quality Assurance and Controller				

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 supply 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.5 Site Inspection Certificate – To be signed by Tenderer (Not Applicable)

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 Acid Division Plant manufactures sulphuric acid, phosphoric acid and phosphate-based granular fertilizers (MAP and DAP) by using phosphate rock as a raw material. In the process a phosphate-bearing mineral and sulphuric acid is used to produce Phosphoric acid. The rock is mined in Phalaborwa and Phosphoric acid and sulphuric acid is Produced on-site. The required 90Ton mobile crane is to be utilized all over the Foskor plant and ship loading, for Lifting, shifting and transferring equipment's from place to place. Mobile cranes are versatile, cost-effective, fast to set-up and access the confined spaces area, their movement allows for easy use on any surface, such as asphalt, or gravel

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
ISO 9001	Quality Management Systems (QMS)	Latest
Act of 1993	Machinery and Occupational Safety Act, 1983	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
E 006	Low Voltage Distribution Boards	Latest	
E 008	Luminaries	Latest	
E001	Low and Medium Voltage Motors	Latest	
E002	400V AC Distribution Switchgear & MCC's	Latest	
E003	Industrial Electrical Installations	Latest	
EC1	Installation, Testing and Commissioning of electrical equipment	Latest	
EE1	Motor Control Centre and Switchgear	Latest	

EE2	Squirrel Cage Induction and Wound Rotor Motors	Latest	
EE6	11KV Power Transformers	Latest	
FC005	General Earth Works to Plant and Building	Latest	
FC016	General Road Works	Latest	
FC021	General Specification for Terrace Construction	Latest	
FC026	General Specification for Road works	Latest	
FD001	Design Criteria for Structures	Latest	YES
FG001	General Requirements for Projects	Latest	
FL001	Design and Fabrication Criteria for Ladders and Walkways	Latest	
FM001	General Mechanical Specification	Latest	YES
FM002	Rubber lining of Vessels and Piping	Latest	
FM003	Welding of Fabricated Equipment	Latest	
FM273	Fire Tube Waste Heat Boiler	Latest	
FM432	Canvas specification	Latest	
FQ001	General Engineering Quality Requirements	Latest	YES
FQ002	Non-Destructive Testing	Latest	
FS001	Fabrication and Erection of Structural Steel	Latest	
FS002	Specification of Roof and Side Cladding	Latest	
FT001	Trestles and Access Platforms	Latest	
FV001	Requirements Vessels, Tanks and Heat Exchangers	Latest	
FY001	Design/Fabrication of Piping	Latest	YES
COP 6	Contractor Control	Latest	
COP 84	Hazardous substances	Latest	
COP 82	Waste Management	Latest	
COP 93	Ladders Stairs and scaffolding	Latest	
GE1	Design of Electrical Installation1	Latest	
GM1	General Mechanical	Latest	
GM2	Mechanical Erection	Latest	
GM3	Surface preparation and protection specification: Paint	Latest	
GM4	Pressure Vessels including Auxiliary equipment	Latest	
GM5	Pipe Standards Including Auxiliary Equipment	Latest	
GM6	Engineering Drawing and Document requirements	Latest	YES
MC002	Scope of Corrosion Protection Richards Bay	Latest	

MC003	Painting High Spillage Areas	Latest	
MC004	General Plant Painting Specification Low Temperature	Latest	
MC005	General Plant Painting Specification High Temperature	Latest	
MC006	Repair Damaged Steel Work	Latest	
MC007	Steel Denso Wrap System	Latest	
MC008	Pipe/Flange Protection Denso Wrap System	Latest	
MC009	General Plant Protection High Corrosive Areas	Latest	
MC010	Painting Tank Grillage and bottom side of floor plate	Latest	
MC011	Internal Painting of Tanks with Demineralized Water	Latest	

Number	Title/Description	Version	Applicable
APPLICABLE	SULPHOS PROJECT SPECIFICATIONS on this Tender		
SS-000000-C-005	Earthworks to foundations and buildings	Latest	
SS-000000-C-006	General specification for concrete construction	Latest	
SS-000000-C-007	Concrete specification	Latest	
SS-000000-C-012	Grouting	Latest	
ST-000000-C-016	General road works	Latest	
SS-000000-C-017	Underground gravity pipelines, cable ducts and drain	Latest	
SS-000000-C-021	Terrace construction	Latest	
ST-350999-316-001	Civil and Building work- Sulphuric acid plant	Latest	
SS-000000-E-003	Industrial electrical installations	Latest	
SS-000000-G-001	Project general	Latest	
SS-000000-G-003	Corrosion protection	Latest	
SS-000000-Q-001	General quality requirements	Latest	YES
SS-000000-Q-002	Non destructive testing construction site	Latest	
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	
SS-000000-S-002	Roof & side cladding (by BEMA)	Latest	
SS-000000-M-023-A	Brick lining of rubber lined carbon steel equipment	Latest	
SS-000000-M-002-00	Rubber lining for steel equipment and piping	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.

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 9001 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

C.4. Project Requirements

The main purpose of this scope of work is for supply of a New 90Ton Mobile Crane for Foskor RBY

C.5. Plant Data

All work listed in the document will be executed for and at FOSKOR (PTY) LTD, The **RICHARD'S BAY PLANT, 21 JOHN ROSS PARKWAY, 3900 South Africa.**

C.6. Scope of Work – General

1. Supply the latest model 90Ton Crane.
2. Shall Provide all necessary manuals and documentation required to operate and maintain the crane.
3. Provide at least two years /24 months warranty for the crane after delivering the crane to Foskor.
4. Shall Provide training for the Crane operators.
5. Shall Provide back up spares for regular maintenance during and after warranty period.
6. Spares parts for the crane should be available for the Foskor Procurement for the next Ten years following the taking over certificate.
7. The Bill of Material for each component shall be indicated on the relevant drawing shall be supplied to Foskor along with the crane.
8. The Tenderer shall provide a classified list of spares (Emergency /standby & Normal Maintenance) which are recommended to be held in stock by Foskor. The list shall be accompanied by Item wise quotation, drawings references, specifications, source of supply, etc for each spare item that should be indicated.
9. The Tenderer shall provide an Itemized list of Life Expectations of different components/assemblies which are subjected to wear and tear during operations.
10. Should Provide Detailed Operating Manual, Maintenance Manual, all Information relevant to Maintenance, servicing & spares provided by the vendors/OEMs as part of their supply.
11. Detailed spares parts catalogues listing all components shall be supplied free of charge.
12. Providing New Crane that includes the following items
 - Pressurized driver's cab fitted Air conditioner.

- Steering/drive 4 x 4, fully independent power steering front and rear axles.
- Preferably automatic transmission.
- Brakes should be standard manufacturer's brake system.
- Spare tire and tool kit.
- Lights (LED) to comply with the regulations of Road Safety ordinances with latest controls:
- Paint for undercarriage and chassis with rust protection paint (warranty 5 years).
- The crane color paint to be standard yellow, with FOSKOR stickers for fleet identification, and Maximum Load Indication on the side of the lifting boom
- Extra
 - Fire Extinguisher.
 - Audible reverse alarm.
 - Stainless steel exhaust system.
 - Full maintenance plan.
 - Supply yellow strobe light (Potable/Removable).
 - Seal all electrical wiring points for acid damage.

C.6.1 Tender Required Documents.

The following documentation

- Engineering Details/Approvals/Drawings/Certificates.
- Reference Letter (Similar Contract Undertaken).
- ISO 9001 Accreditation.
- Provide Equipment Maintenance Checklists.

C 6.2 Specifications & Standard Features

TECHNICAL DATA:

- Max. load at a 2.5 m boom projection: 90 t
- Max. lifting height with dual folding jib: 76 m
- max. boom projection with dual folding jib: 58 m
- Telescopic boom length: 11.125 - 50 m

WARRANTY

The crane shall carry the manufacturer's warranty of not less than 24 Months after delivering the crane to FOSKOR site. A certificate shall be Provided.

TRAINING

on-site training for operators of mobile crane, supplier crane training should be provided free of charge. Training must consist of the following aspects:

- Operating instructions of Vehicle, Components and Equipment
- Basic Vehicle Care and Preventative Maintenance
- 3 x Workshop manual on soft copy/ hard copy. (Including Crane Load Chart)
- 3 x Driver's operating manual.

DETAILED SPECIFICATIONS

SNo	ITEM	Standard	SUPPLIER COMMITTED DETAILS
1	Boom	11,2 m - 43,2 m (37 ft - 142 ft) five-section, full power boom with TWIN-LOCK™ boom pinning system. Maximum tip height: 45,8 m (150 ft)	
2	Boom nose	Five nylatron sheaves, mounted on heavy duty tapered roller bearings with removable pin-type rope guards. Quick reeve boom nose. Removable auxiliary boom nose with removable pin type rope guard	
3	Boom elevation	Single lift cylinder with safety valve provides boom angle from -3° to +82°	
4	Offsetable lattice extension	10 m - 17 m (33 ft - 56 ft) bi-fold lattice swing away extension manual offset at 0°, 20°, and 40°. Maximum tip height: 63,1 m (207 ft)	
5	Load moment and anti-two block system	Load moment and anti-two block system with audio/visual warning and control lever lockout provides electronic display of boom angle, length, radius, tip height, relative load moment, maximum permissible load, load indication and warning of impending two-block condition	
6.	Cab	Full-vision, all-steel fabricated with acoustical lining and tinted safety glass throughout. Cab tilts to +20 degrees. Deluxe seat incorporates armrest-mounted hydraulic single-axis controllers. Dash panel incorporates gauges for all engine functions. Other standard features include hot water heater, cab circulating air fan, sliding side and rear windows, sliding skylight with electric wiper and sunscreen, electric windshield wash/wipe, fire extinguisher and seat belt. AC.	
7	Crane control system	Full control of all crane movements using electrical control levers with automatic reset to zero. Controls are integrated with the LMI and engine management system by CAN-BUS. ECOS system with graphic display.	
8	Swing	Two planetary gear boxes with axial piston fixed displacement motors. Infinitely variable to 2.0 rpm. Holding brake and service brake	

9	Counterweight	7258 kg (16,000 lb) consisting of various sections with hydraulic installation/removal system operated from the cab. *Optional "Heavy Lift" counterweight package consisting of (2) 4636 kg (10,000 lb) sections in addition to standard, for a total of 16 329 kg (36,000 lb). *Optional "XL" counterweight package consisting of (2) 1814 kg (4000 lb) and (2) 1021 kg (2250 lb) wing sections in addition to standard and "Heavy Lift" package, for a total of 21 999 kg (48,500 lb).	
10	Hydraulic system	2 separate circuits, 1 axial piston variable displacement pump (load sensing) with electronic power limiting control and 1 gear pump for swing. 2 thermostatically controlled oil coolers keep oil at optimum operating temperature. Tank capacity: 508 l (134 gal). Return line type filter with full flow by-pass protection and service indicator. Replaceable cartridge with micron filtration rating of 5/12/16.	
11	Hoist	<p>Main and auxiliary hoists are powered by axial piston motor with planetary gear and brake. "Thumb thumper" hoist drum rotation indicator alerts operator of hoist movement. Standard fifth wrap indication with shutoff.</p> <p>Hoist line pull: 1st Layer: 10 034 kg (22,122 lb) 3rd Layer: 8466 kg (18,665 lb) 5th Layer: 7322 kg (16,142 lb)</p> <p>Maximum line speed: 111 m/min (365 fpm)</p> <p>Maximum permissible line pull: 7621 kg (15,700 lb) 34x7 Rotation Resistant *Optional 7784 kg (17,160 lb) 35X7 Class Rope diameter: 19 mm (3/4")</p> <p>Rope length: 225 m (738 ft) Casar Euro lift/Endurance Dyform 214 m (702 ft) 35X7 Flex-x</p> <p>Maximum rope storage: 300 m (984 ft)</p>	
12	Chassis	Triple box section, four-axle carrier, fabricated from high strength, low alloy steel with towing and tie-down lugs.	
13	Outrigger system	Four hydraulic telescoping, two-stage, double box beam outriggers with inverted jacks and integral holding valves. Quick release type outrigger floats 610 mm (24 in) diameter. Three position setting with fully extended, intermediate (50%) extended and fully retracted capacities. Outrigger monitoring system. Maximum outrigger pad load: 49 442 kg (109,000 lb)	
14	Outrigger controls	Located in the superstructure cab and on either side of carrier. Crane level indicators located at all stations. Auto leveling standard	

15	Engine-	Cummins QSB 6.7L - Stage V / Tier 4F Type .4-cycle, Diesel with single module exhaust system 6-cylinder Turbocharged. After-Cooled Engine Horsepower Rating. 224kW (300 hp) @ 2500 rpm Maximum Speed, No Load . 2700 rpm Max. Torque 1288 NM (950 lbf-ft) at 1500 rpm 24 Volt Electrical System. two 12 Volt Batteries Fuel. Maximum 15 ppm sulfur content (ULSD) plus, Diesel Exhaust Fluid (DEF).	
16	Fuel tank capacity	285 L (75 gal)	
17	Transmission	Sequential powershift with 6 forward and 6 reverse speeds. Front axles disconnect for 4 x 2 travel.	
18	Steering	Front axles, single circuit, mechanical steering with hydraulic power assist. Turning radius: 45.1 ft	
19	Axles	Front: (2) beam-type steering axles, 2,12 m (83.4 in) track. Rear: (2) single reduction drive axles, 1,89 m (74.5 in) track. Inter-axle differential locks. Drive: 8 x 4 x 4.	
20	Brakes	S-cam, dual air split system operating on all wheels. Spring-applied, air released parking brake acting on rear axles. Air dryer. ABS with traction control.	
21	Suspension	Front: Walking beam with air bags and shock absorbers. Rear: Walking beam with air bags and shock absorbers	
22	Tires	Front: 445/65R 22.5 tubeless, mounted on aluminum disc wheels. Rear: 315/80R 22.5 tubeless, mounted on aluminum disc outer wheels, inner wheels steel	
23	Lights	Full lighting package including turn indicators, head, tail, brake, and hazard warning lights. Meets FMVSS and CMVSS standards.	
24	Electrical system	Four maintenance-free batteries provide 24 V electrical system. Standard battery disconnect.	
25	Maximum speed	40 Km/hr. . Gradeability (theoretical) – 70%	
26	Miscellaneous standard equipment	Aluminum fenders with rear storage compartments; dual rear view mirrors; electronic back-up alarm; sling/tool box; tire inflation kit; air cleaner restriction indicator; headache ball stowage; air conditioning; traction control; air horn; Crane STAR Asset Management System.	
		**Two owner's manual (One paper & One USB flash Drive)	

27	Optional equipment	Auxiliary Lighting and Convenience Package: Includes amber strobe light for superstructure and carrier cab, and boom mounted aircraft warning light (fully wired) Dual boom base mounted floodlights Hook blocks Pintle hook (rear) Trailing Boom Package Aluminium outrigger pads Counterweight packages Tow cable Wind speed indicator Winter front radiator cover Additional storage Counterweight slings Cross axle differential	
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C 6.3

1.Foskor Supplied Services

Foskor (Pty) Ltd shall be responsible for:		Applicable:
1	Supply a copy of the relevant Foskor Procedure Specification(s).	Refer C.3
2	Supply a copy of reference drawings if required.	N/A
3	Provide access to electricity connection points <ul style="list-style-type: none"> Any connection and consumption will be monitored by Tenderer and verified by Foskor on defined intervals (usually at the beginning and end of contract) 	N/A
4	Provide access to potable water. <ul style="list-style-type: none"> Connection and consumption would need to be monitored by Successful Tenderer (Supplier) and verified by Foskor on intervals (usually at the beginning and end of contract) defined by Foskor 	N/A
5	Provide a suitable area for site establishment for Successful Tenderer (Supplier). <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 	N/A
6	Provide access to ablutions facilities. (Not change rooms) <ul style="list-style-type: none"> Successful Tenderer (Supplier)'s workers to be fully dressed in required PPE when coming on site. The successful Tenderer to ensure that its workers/sub suppliers/ 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. 	N/A
7	Assist in issuing of work clearances and HIRA certificates.	N/A

2. Successful Tenderer Responsibilities

The successful Tenderer (Supplier) shall be responsible for (inter alia):		Applicable:
1	Supply of a 90Ton Crane (Latest Model)	YES
2	Provide original drawings of the equipment	YES

C.6.4

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 Supplier 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.6.5 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 charges

C.6.6 Standing Time

Standard Time Not applicable to this project (**Supply of a New 90 Ton Mobile crane**).

C.6.7 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 Supplier in writing, with specific reference to this Clause, and the Supplier 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.6.8 Penalty

If the Supplier, by the Due Completion Date, fails to complete the Works to the extent which entitles him to receive a Certificate of Practical Completion, the Supplier shall be liable to Foskop (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**. Should commit to Delivery date of 3 months

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

C.6.9 Claims: Extension of Time for Completion, Additional Payments, or Compensation

C.6.9.1 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 Foskop (Pty) Ltd Project Representative
- ii. Submit **written notice** to the Foskop (Pty) Ltd Project Representative of the intention to claim within **7 days** after the circumstances, event, act, or omission giving rise to such claim has arisen or occurred. The Notice and subsequent claim to set out:
 - a. Particulars of the circumstance, event, act or omission giving rise to the claim concerned.
 - b. Provisions of the portion of the contract on which he intends to make the claim.
 - c. Length of extension of time, if any, claimed and the basis of calculation thereof, and
 - d. The Price Adjustment, if any, claimed and the basis of calculation thereof.
- iii. If the Supplier cannot reasonably comply with any of the provision above within the said period 14 days, he shall:
 - a. Notify the Foskop (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 Foskop (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 Foskop (Pty) Ltd Project Representative.
- iv. In the event of failure to comply to any of the provisions, the claim would not be accommodated and Foskop (Pty) Ltd would be discharged of all liability in connection with the claim.

C.6.9.2 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 Supplier to any extension of time for the completion of the works or portion thereof, then the Foskop (Pty) Ltd Project Representative will consider a claim duly submitted.

C.6.10 Cancellation of the Contract by Foskor (Pty) Ltd

If:

- (a)
 - (i) The estate of the supplier shall be sequestrated (provisionally or finally), or
 - (ii) The Supplier shall publish a notice of surrender of his estate as insolvent, or
 - (iii) The Supplier, being a company or a close corporation, shall go into liquidation (provisionally or finally), or
 - (iv) The Supplier shall assign the Contract without the consent in writing of Foskor (Pty) Ltd having first been obtained, or
 - (v) The Supplier shall enter into a compromise with the general body of his creditors, or
 - (vi) The Supplier 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 Supplier/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 Supplier, terminate the Contract and withhold any payments due until further notice

C.6.11 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 Supplier 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.

C.7. Foskor Safety Documents to be submitted, Environmental and Site Management**C7.1 SHREQ Requirements**

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

- Compliance with COP 96 Trackless Mobile Machines
- Compliance with ISO 9001 Quality System Series.
- Copy of requirements available from Foskor SHREQ Department.

C.7.2 Environmental Management Specifications

- Is Not Applicable to this project (**Supply of 90Ton Mobile Crane**)

C.8. OHSA 1993 Health and Safety Specification

This specification covers the health and safety requirements to be met by the successful Tenderer (Supplier) to ensure a continued safe and healthy environment for all workers, employees, and sub suppliers/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. 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.10. 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.10.1 Quality Control:

- i. Quality of assembly work must be always monitored and controlled according to standard operation procedures.
- ii. Additional inspection shall be performed during performance Testing, where service conditions warrant. Damaged or defective parts should be replaced /service .

C 10.2 BILL OF MATERIAL

BOM			
No	Technical BOQ		
	ITEM	UNIT	QUOTED (Included)
	Standard		Tick if Quoted YES/NO
1	90Ton Rough Terrain Crane with following specification <ul style="list-style-type: none"> • MAXbase asymmetrical Outrigger system • Manitowoc Crane Control System • New Carrier design with flat decking, additional storage and full LED lighting. • Engine: Cummins B6.7L Stage V /Tier 4Final 224kw @ 2500 RPM. 	01	

Section D: TECHNICAL EVALUATION CRITERIA

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

Evaluation Criteria (Technical)				
MANDATORY DOCUMENTS Bid submission not meeting these requirements will result in bid being disqualified.				
Load Test Certificates:- 1. Bidder to ensure that items of lifting equipment & Engine can perform to the required standard in accordance with manufacturer's guidance, by giving it a full-strength test. 2. Bidder to provide clearly regarding the Crane Ratings, Max Load capacity and Maximum lifting height as mentioned in specification.				
TENDER TITLE				
No.	Technical Criteria Description	% Contribution	Proof/Documents to be submitted	Notes
1	Compliance with Scope of Work Specifications - Weight not to be less than 20%			
A)	Submission of Engineering Details /Drawings, Manuals & Detailed Equipment maintenance Checklists. Scoring: If provided all three =25% If provided any two = 10%. If provided less than two =0%	25%	Bidder to submit documents as requested in detail. 1.Engineering Details /Drawings, 2.Manuals 3.Detailed Equipment maintenance Checklists.	
2	Reliability - Supplier reliability, quality and budget - Weight not to be less than 50%			
A)	Warranty & Guarantee letter from OEM's/Authorized Distributors Scoring: Scoring: If Provided=25%; If not provided = 0%	25%	Bidder to Provide confirmation letter stating that suppliers will provide Warranty for all Items supplied for a period of minimum 24 Months and Guarantee to supply the spare for at least 10 years within responsible price.	
B)	The delivery lead time should not be more than 12 weeks after receiving the official purchase order Scoring: If provided equal to less than 12 weeks=25%; If provided >12 weeks & <20 weeks = 10%	25%	Written and signed letters from previous companies where services were rendered to confirm all lead times.	

	If Provided >20 weeks = 0%			
3	Competence - Supplier experience & team competence at Foskor Richards Bay - Weight not to be less than 30%			
A)	Supplier Experience in supply and delivery of Mobile cranes. Scoring: If submitted for > 10 years' Experience = 25% If submitted 5-10 years' Experience =10% If submitted 1-5 Years = 5% Nonresponsive =0%	25%	The Supplier is required to submit proof narrating years of experience in supply and Delivery of mobile crane for Major industries. reference/Client letters will be accepted.	
<p style="text-align: right;">Total Technical Score: 100 %</p> <p>Note: For the bid to be considered the bidder needs to score 80% and above, and comply to all mandatory requirements</p>				

THE END OF THE SCOPE OF WORK

