

Fire equipment servicing and maintenance contract at Foskor Acid Division

Tender no:

Cost Code:

3040 6000

Revision¹: 1

Revised date:

NAME	DESIGNATION	EMPLOYEE No:	SIGNATURE	DATE
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COMPILED - RECOMMENDATION

Mandla Magudulela	Superintendent Emergency Services & Security	502560		
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APPROVAL TO PROCEED

Charles Mavuso	Senior Manager: SHREQ	504468		
Sam Mbuyazi	General Manager: Acid Division	500441		

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1. Background and Present Situation

Foskor Acid Division, Richards Bay, is a large-scale producer of sulphuric acid, phosphoric acid, and granular fertilizer.

Foskor has also a site located in Alton, trucks staging area having a building structure with office apartments, ablution facilities and Bosveld tanks at Transnet Port Terminals Richards Bay.

Foskor currently has various systems installed as means for both combating fires which may prevail and suppressing toxic fumes released in fires involving Sulphur granules. They include but not limited to the following systems:

1. Gaseous fire suppression systems for Substations, DCS rooms, ITC server rooms, Drawing Offices etc. (Pyro -shields)
2. Deluge fire suppression systems for conveyor belts 1,2,3,10,11,12, and Inclines 1, 2 & 3.
3. Sprinkler systems for Main Warehouse Stores and Phosphoric plant MV's.
4. Fire extinguishers for Class B (Dry Chemical Powders) and C fires (Carbon dioxide).
5. Fixed fire monitors
6. Fire hose reels
7. Fire hydrants

2. Legislation, Standards and Codes of Practice

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

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

Table 1:

Method	Title / Description
1 SANS 10 400	National Building Regulations
2 SANS 1475	Part 1 and 2
3 SANS 1910	Dry Chemical powder fire extinguishers
4 SANS 1567	Carbon dioxide fire extinguishers

3. Foskor Specifications

Essential Criteria

Number	Title/Description	Revision
	Workman's Compensation	Latest
COP 6	Contractor Control -Foskor code of Practice	Latest
	<i>Induction at TPT Richards Bay</i>	Latest
	Foskor Induction	Latest

	Public Liability Insurance Cover	Latest
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A service provider is required to adhere to procedures, regulations, standards and bylaws of the municipality

4. Contractor Requirements

Carrying out the fire servicing of fire related equipment as will be stipulated.

Key personnel:

1. Competent Fire Service Technician with a registered number
2. Semi-skilled personnel
3. Accredited by SAQCC (South African Qualification and Certification Committee)
4. Accredited by SANAS (South African National Accreditation System)
5. Contractor company to have a Diesel mobile bakkie (1.6l, 2l & 3.2l) to load equipment and to visit other Foskor sites as stated above.
6. Valid driver's licence e.g. technician

5. Plant Data

All work listed in the document will be conducted at

Foskor (PTY) LTD – Richards Bay Division
21 John Ross Parkway
Richards Bay
3900
South Africa

6. Drawings

The copy of reference drawings, instruction manuals and any related data will be supplied when required and shall remain the property of Foskor and shall be returned to Foskor on completion of any task assigned to the Contractor, requiring such.

Drawing No.	Title / Description	Revision
DA 301999312101	Foskor lay out plan	03
	Fire water reticulation	

7. Supplied Services

Foskor Supplied Services

Foskor shall be responsible for the following:

- i Supply a copy of the Foskor Procedure Specifications.
- ii Electricity, water and suitable amenities.
- iii Assisting in the issuing of HIRA and Permit clearances
- iv Scrap bins where and when required

- v Fire watch and Emergency Area Warden training internal.

Contractor Responsibilities

The contractor shall be responsible for the following:

- i Supply of labor, supervision, specialized manpower and other staff to fulfill the scope of work.
- ii All equipment, tools, personal protective equipment (PPE) etc. that the Contractor will bring to FOSKOR will be subject to review and approval by FOSKOR and shall conform to FOSKOR standards and procedures.
- iii Supply of tools and specialized equipment, consumables to fulfill the scope of work.
- iv FOSKOR will not be held responsible for any losses incurred to the Contractor's equipment.
- v Cleanliness of the Fire Station area where most functions will be carried out
- vi Good housekeeping for every job done in the plant.

8. Scope of Work

The overall scope of work for the appointed service provider shall include but not limited to:

- a) Carrying out inspection of all fire equipment and fire systems on site and on other related FOSKOR premises.
- b) Route inspections of all conveyor belts' fire systems prior Sulphur granules offloading which involves all other disciplines namely Materials Handling Process, Materials Handling Maintenance, Electrical Department.
- c) At times route inspection can start where the Ship berths at the Transnet Port Terminals into FOSKOR Conveyor 1, 2 and ends up in the Sulphur store where it gets offloaded by the wing conveyor of the tripper car.
- d) Quarterly audit of all gas rooms ensuring that all air cylinders are properly sealed (71 cylinders).
- e) Replace air gas cylinders when required.
- f) Weekly inspections of all SCBA cylinders in the fire truck
- g) Refill BA cylinders when required (advise if it is due for visuals and hydro tests)
- h) Ensure cleanliness of the fire station
- i) Activate deluge system once a week on Wednesdays at Sulphur conveyors 10, 11, 12 and inclines 1, 2 & 3.
- j) Activate other deluge systems once a month. (Conveyor 1, 2 & 3)
- k) Activate and inspect Turbine A, B, C, Coating oil tanks and the TG Building Spray systems
- l) Check and inspect all deluge system valves at conveyor 1 (9 zones) Conveyor 2 (2 zones) Conveyor 3 (5 zones)
- m) Ensuring that all gauges are functional, and sprinkler heads are in good order (410).
- n) Deluge system for conveyor 10 (has 5 hoppers x 2 zones each)
- o) Conveyors 11 and 12 have one zone each respectively and the inclines 1, 2 & 3 (3 zones)
- p) Service all fixed fire monitors
- q) Servicing of all Fire hose reels
- r) Servicing all hydrants and testing them on quarterly basis
- s) Replace hydrant heads if malfunctioning.
- t). Isolate fire water reticulation valves if repairs are to be done.
- u) Inspecting pyro-shield cylinders (110 cylinders).

9. Safety and quality assurance:

SHREQ Evaluation

The Service Provider shall comply with all FOSKOR Regulations and Safety Standards.

The Service Provider shall fully comply with the OHS act (act 85 of 1993)

- The contractor needs to attend a safety induction.
- Safety Plan/ file to be submitted to safety department for approval 7 days prior to commencing work.
- Section 37(2) COVID – 19 related agreements to be signed.
- Medicals to be done qualifying workers to enter radiation areas

- Correct PPE to be used on site meeting Foskor minimum requirements which are: Foskor approved overalls (clearly marked company logo), safety boots with steel toe cap or steel cap, gumboots, Hard Hat with chin strap, hearing protection and both Uvex safety goggles. An ABEK respirator kit approved by Foskor to be carried all the time while within premises of Foskor.
- The Service Provider shall provide appropriate safety procedures and written work instructions to its workforce to minimize the risk of injuries.
- Adhere to COP 6 requirements.

Safety requirements

- A safety plan for the work to be done by the contractor.
- The contractor must appoint a qualified Safety Officer with at least Diploma in Safety Management or SAMTRAC or both either on a full time or part-time basis to conduct the following responsibilities:
 - Conducts and submit audits monthly.
 - Conduct and submit inspections monthly.
 - Compile and submit safety monthly report to Safety Department.
 - Perform safety talks and awareness training and submit evidence to Foskor.
 - Visibility on Site.
 - Conduct inspections on PPE and provide evidence to Foskor.
 - Continuously update Safety File.
- A contractor to submit a comprehensive task-based risk assessment that has acknowledged the Foskor baseline risk assessment and method statement.
- A contractor to appoint a full-time Supervisor to manage and supervise all the activities of his/her employer.
- All new work activities must have scope of work and communicated to Safety Department before starting with the work with exception of emergency breakdowns.
- **All maintenance emergency works and consultants are exempted** from the above-mentioned safety requirements.

NB

A contractor that has been awarded work must register with **HSEC Online**, which is a contractor management system for Foskor Acid Division where all contractors are required to submit their safety files.

The above requirements are informed by previous incidents picked up during incident investigations and most industries apply this as a best practice to reduce incidents to an acceptable level especially with Lost Time Injury Frequency Rate (LTIFR). Therefore, it is the responsibility of Managers to enforce these safety changes in their areas of responsibility. Your cooperation in this regard will be greatly appreciated, this will come into effect as from the 1st of June 2024.

“Think safe, work safe, home safe”.

ZERO HARM IS POSSIBLE

SLAM – “STOP, LOOK, ASSESS, MANAGE”

10. Work Methodology

Adhere to requirements stated in COP 6.

- Shall contain sufficient details to assure FOSKOR that the contractor has detailed understanding of the work and has enough staff resources to support the contract. The methodology will be verified and approved by FOSKOR before commencement of all site work.
- Failure to submit a detailed work methodology at the time of the tender will result in the disqualification of the tender.

11. Service Level Agreement

1	FIRE EXTINGUISHERS <ul style="list-style-type: none"> • To be serviced on time • Inspection cards must be clipped on monthly inspections • Clearly marked with signages
2	FIRE HYDRANTS <ul style="list-style-type: none"> • Inspection cards to be visible and legible • Must have lip washers in place • Hydrants flow testing to be done on a quarterly basis and recorded
3	FIRE HOSE REELS <ul style="list-style-type: none"> • To be clearly marked with signages and be properly rolled • No hose reel without a nozzle • Service sticker both in and outside the disc • Minimum length of 25m and a 5m overlap allowance
4	BREATHING APPARATUS <ul style="list-style-type: none"> • All breathing apparatus to be inspected on monthly basis • SCBA's in the fire truck once in a week

5	SPRINKLER AND DELUGE SYSTEMS <ul style="list-style-type: none"> • All defects to be recorded and reported to the Supt. Emergency Services & Security • All tests to be done on monthly basis • Some deluge systems to be tested every Wednesday at Sulphur section as will be guided • Test records to be filed
6	PYROSHIELD SYSTEMS <ul style="list-style-type: none"> • All inspection to be done on monthly basis
7	TIME AND ATTENDANCE Ensure that the shifts are 07h30 to 16h30 Monday to Thursday and 07h30 to 14h00 on Fridays.

Evaluations

The evaluation of service providers shall entail verification of the companies and /or detail individuals' competencies to effectively and efficiently carry out tasks listed under the Scope of work above. Companies and or individuals are therefore required to provide the following information which shall also form part of the content to be evaluated.

- (a) Company profile
- (b) List of similar assignments, giving references
- (c) Detailed cost breakdown- Schedule Pricing of Quantities entailed below

Tender Adjudicators

Proposals will be adjudicated on the mix of the following criteria (in no particular order)

- Price
- HDSA/ BEE (Score card will be used).
- Track record and experience
- List of references with contact numbers, projects values and clients company number
- Preference will be given to local companies
- One page motivation letter. NB!! Failure to comply with it leads to disqualification
- Work methodology as requested above

CHARGES OUTSIDE OF THE MAINTENANCE CONTRACT

1. Foskor shall pay or be charged for annual recharging of all fire extinguishers indicated as total amount below.
2. Breathing apparatus due for visual testing
3. Breathing apparatus due for hydro testing.
4. Any fire extinguisher which has been used to fight the fire in the plant shall be paid for by Foskor.

Section 5: Pricing Schedule of Quantity

No	Description	UOM	QTY	Rate	Total
1	Fire equipment servicing and maintenance contract	Monthly	36 months		
2	Fire Service Technician on normal day shift per week	Per person	8 hours		
a	Fire Service Technician	hourly	1 hour		
3	Semi-skilled Fire Service Technician on normal day shift per week	Per person	8 hours		
a	Semi-skilled Fire Service Technician	hourly	1 hour		
4	Fire Service Technician overtime	@1.5 hours	1 hour		
5	Fire Service Technician on Holidays or Sundays	Double time	1 hour		
6	Semi -skilled Fire Service Technician at 1.5 hours overtime	@1.5 hours	1 hour		
7	Semi- skilled Fire Service Technician on Holidays or Sundays	Double time	1 hour		
	SUPPLY COST OF THE FOLLOWING:				
8	Fire hydrants (92 on-site)		92		
a	Fire hydrant head tamper proof	each	1		
b	Fire hydrant flow meter new	each	1		
c	Fire hydrant flow meter Calibration	each	1		
d	Fire hydrant blank cap with chain	each	1		
e	65mm Hydrant lip washer	each	1		
9	Fire Hose Reels (45 on-site)		45		
a	CP valve for fire hose reel	each	1		

b	Nozzle pvc for fire hose reel	each	1		
c	Complete new fire hose reel with pvc local hose & nozzle				
1	Standard	each	1		
2	Galvanized	each	1		
3	Stainless steel	each	1		
4	Fire hose 19mm x 30mm pvc only	each	1		
10	Breathing apparatus (76 on-site)	each	76		
a	BA cylinder annual visual inspection & hydro testing	each	1		
b	BA cylinder new complete with valve 6.0L excluding backplate	each	1		
11	Deluge valves (32 on-site)	each	32		
a	Deluge valves	each	1		
12	Fire extinguishers (568 on-site)		568		
a	Fire extinguishers re-pressurized DCP	each	1		
b	DCP/STP dead assembly	each	1		
c	Fire extinguisher with new discharge hose	each	1		
d	Fire extinguisher re-paintings	each	1		
e	Fire extinguisher new instruction labels	each	1		
f	Fire extinguisher 'J' bracket	each	1		
g	Fire extinguisher Uni – Fit bracket	each	1		
h	Fire extinguisher heavy duty vehicle bracket 4.5/9.0kg	each	1		
i	Fire extinguisher light duty vehicle bracket 2.5kg	each	1		
j	Fire extinguisher heavy duty vehicle bracket 2.5kg	each	1		

k	Fire extinguisher new head assembly	each	1		
l	Fire extinguisher re-charged 9kg (90% DCP)	each	1		
m	Fire extinguisher re-charged 4.5kg (90% DCP)	each	1		
n	Fire extinguisher re-charged 1kg (90% DCP)	each	1		
o	Fire extinguisher hydro tested	each	1		
p	Fire extinguishers re-pressurized Co2	each	1		
q	Fire extinguisher with discharge swivel horn Co2	each	1		
r	Fire extinguisher with discharge fixed horn Co2	each	1		
s	Co2 STP head valve assembly	each	1		
t	Hydro testing and certification per Co2 cylinder	each	1		
u	Fire extinguisher re-charged 5kg	each	1		
13	Signages				
a	Fire hose reel (290mm x 290mm) SANS	each	1		
b	Hydrant (290mm x 290mm) SANS	each	1		
c	Fire extinguishers (290mm x 290mm) SANS	each	1		
d	Arrows (290mm x 290mm) SANS	each	1		
14	Fire extinguisher boxes				
a	DCP Fire extinguisher (9kg) Box	each	1		
b	Co2 Fire extinguisher (5kg) Box	each	1		
15	Fire hoses				
a	Fire hose new supply 38mm				
1	Duraline hoses complete w/LA couplings	each	1		
2	Fire Hose Coupling Male	each	1		

3	Fire Hose Coupling Female	each	1		
4	Fire Hose Binding	each	1		
b	Fire Hose New Supply 65mm				
1	Duraline Hoses Complete w/LA Couplings	each	1		
2	Fire Hose Coupling Male	each	1		
3	Fire Hose Coupling Female	each	1		
4	Fire Hose Binding	each	1		
16	Accessories				
a	Hemp	roll	1		
b	Loctite 401	each	1		
c	Plaslock (tie/seals) (1000 per pack)	pack	1		
d	Clipping Machine for Inspection Cards	each	1		
17	Sprinkler Nozzles 15mm				
a	100% Pure Brass Fire Sprinkler Nozzles (Pendent) with Bulb	each	1		
b	100% Pure Brass Fire Sprinkler Nozzles (Upright) with Bulb	each	1		
c	Model A Fire Sprinkler Nozzles or Hollow Cone	each	1		
Total					

Use the above as an example. Add more breaks down items as might be deemed necessary

12. Evaluation Criteria

Technical Evaluation Criteria				
No	Technical Criteria description	%Contribution	Proof/documents to be submitted	Notes
	Pre-Qualification / Mandatory Requirements Bidders must submit the following: <ul style="list-style-type: none"> Company must be registered with the South African Qualification and Certification Committee (SAQCC) and the Fire Fighting Equipment Traders Association (FFETA). 	Y/N	Bidder to submit valid certificates of HIRA, Working at Heights, and proof that the company is registered with SAQCC and FFETA.	
1	Company experience & Team competence			
a)	Provide the company experience in Fire equipment servicing and maintenance. Scoring: 1 year = 5%; 2 years 10%, 3 years = 15%; 4+ years = 20%	20%	Provide detailed signed reference letters on previous and current clients' letterheads indicating the service of providing Fire equipment servicing and maintenance.	
b)	The Technician must have both Hazard Identification Risk Assessment (HIRA) training and Working at Heights certificates. Scoring: Not comply = 0 %; Comply 40% for all	40%	Provide proof of HIRA and Working at Heights certificates.	
2	Regulatory/Legal/Licenses/Registration			
a)	The Technician must be registered with SAQCC. Technician must have a valid Driver's license (Code B, C, EC, or EC1). Scoring: Not Comply = 0 %; Comply 30%	30%	<ul style="list-style-type: none"> Provide SAQCC certificate Provide a valid driver's license. 	
3	Company Liability			
a)	Public Liability (Insurance) Scoring: R1 000 000 = 5%; R2 000 000 > = 10%	10%	Bidders to submit proof of public liability	
	Total Technical Score	100%		

<p>Note: For the bid to be considered the bidder needs to score 70% and above and comply to all mandatory requirements. Failure to complete a Bill of Quantity (BOQ) leads to disqualification.</p>
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